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This document lists experimental references added to Nuclear Science References (NSR) during the period January 1, 2010 to March 31, 2010. The first section lists keynumbers and keywords sorted by mass and nuclide. The second section lists all references, ordered by keynumber.

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Keynumbers and Keywords

A=1

- ^1n 2009ST27 NUCLEAR REACTIONS ^1H (polarized d, 2p), E=130 MeV; measured proton spectra, charged-particle spectra, proton(charged-particle)-coin for several polarization states; deduced tensor analyzing powers. Comparison with various models. JOUR ZAANE 42 13
- 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) ^1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- ^1H 2008LAZU NUCLEAR REACTIONS ^2H (n, 2n), E=5.6, 5.8, 6.3, 6.8, 9.3, 20.2, 21.2, 21.8, 22.4, 23.1, 24.6 MeV; measured En, In, p-2n-coin.; deduced σ ; calculated σ . Compared to ENDF / B-VII, CENDL-2. CARMEN 4π neutron detector. CONF Nice (Nucl Data for Sci and Technol) Proc,P437
- 2008S020 ATOMIC MASSES $^1,2\text{H}$; measured cyclotron frequency ratios; derived masses of $^2\text{H}^+$ and proton. Penning trap mass spectrometer Smiletrap. JOUR PLRAA 78 012514
- 2009MOZW NUCLEAR REACTIONS ^1H (n, n'), E=100 eV-15 keV; ^{12}C (n, n'), E=64-15 keV; measured En, In, θ (n); deduced (^{12}C H₂) / ^{12}C intensity ratio. ^1H in the CH₂ compound; ^{12}C both as an element compound and in the form of CH₂ compound. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P102,Moreh
- 2010TA04 NUCLEAR REACTIONS ^1H (^{19}C , $^{19}\text{C}'$), (^{20}C , $^{20}\text{C}'$), (^{22}C , $^{22}\text{C}'$), E=40 MeV / nucleon; measured reaction products; $^{19,20,22}\text{C}$; deduced σ , rms matter radii, neutron halo. Secondary beams from ^{40}Ar fragmentation. JOUR PRLTA 104 062701

A=2

- ^2H 2008S020 ATOMIC MASSES $^1,2\text{H}$; measured cyclotron frequency ratios; derived masses of $^2\text{H}^+$ and proton. Penning trap mass spectrometer Smiletrap. JOUR PLRAA 78 012514
- 2010WE01 NUCLEAR REACTIONS ^2H (polarized n, n), E(n)=19.0 MeV; measured analyzing powers; Monte Carlo simulation. Polarized neutrons produced in ^2H (polarized d, n) ^3He reaction and neutron polarization measured in ^4He (polarized n, n) reaction. Comparison with a three-body Faddeev calculation. JOUR PRVCA 81 024003

KEYNUMBERS AND KEYWORDS

A=3

- ³H 2009DEZT NUCLEAR REACTIONS ⁶Li(n, α), E=0.18-12 MeV; measured $E\alpha$, $I\alpha$, $\theta(\alpha)$ using LANSCE / WNR; deduced σ , $d\sigma$; calculated σ using R-matrix. Compared to data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P215,Devlin
- 2009VE12 NUCLEAR REACTIONS ⁶Li, ¹⁰B(polarized n, α), E=low; measured parity-violating emission asymmetry coefficient with ultracold polarized neutrons; deduced weak neutral current constant. JOUR NUPAB 827 425c

A=4

No references found

A=5

- ⁵He 2009AG13 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ^{12,13}C, ¹⁶O(K⁻, π^-), E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ⁵He, ⁷Li, ⁹Be, ¹¹B, ^{12,13}C, ¹⁵N, ¹⁶O; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c

A=6

- ⁶He 2009LI51 NUCLEAR REACTIONS ⁹Be(²⁶Mg, X), E=68.8 MeV; measured isotopic yields. ⁶He, ^{7,8,9}Li, ^{9,10,11,12}Be, ^{12,13,14,15,17}B, ^{15,16,17,18,19}C, ^{19,20,21}N, ^{22,23}O; measured yields. JOUR PRVCA 80 054315
- 2009RA33 RADIOACTIVITY ⁶He(β^-) [from ⁷Li(p, 2p), E=30 MeV]; measured β^- and $\alpha+d$ spectra, half-life, and transition probability as function of the center-of-mass energy for the $\alpha+d$ branch of the decay of ⁶He; deduced $\alpha+d$ branching ratio. ⁶He ions of 7.9 MeV implanted in highly segmented silicon detector. JOUR PRVCA 80 054307
- 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X)¹n / ⁶He / ⁸He / ⁸Li / ⁹Li / ⁷Be / ¹⁰Be / ¹¹Be / ⁸B / ¹⁰B / ¹²B / ¹³B / ⁹C / ¹⁰C / ¹¹C / ¹²N / ¹³N / ¹⁵O, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- ⁶Li 2009AG13 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ^{12,13}C, ¹⁶O(K⁻, π^-), E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ⁵He, ⁷Li, ⁹Be, ¹¹B, ^{12,13}C, ¹⁵N, ¹⁶O; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c

KEYNUMBERS AND KEYWORDS

A=6 (continued)

- 2009RA33 RADIOACTIVITY ${}^6\text{He}(\beta^-)$ [from ${}^7\text{Li}(p, 2p)$, $E=30$ MeV]; measured β^- - and $\alpha+d$ spectra, half-life, and transition probability as function of the center-of-mass energy for the $\alpha+d$ branch of the decay of ${}^6\text{He}$; deduced $\alpha+d$ branching ratio. ${}^6\text{He}$ ions of 7.9 MeV implanted in highly segmented silicon detector. JOUR PRVCA 80 054307

A=7

- ${}^7\text{Li}$ 2009AG13 NUCLEAR REACTIONS ${}^6,7\text{Li}$, ${}^9\text{Be}$, ${}^{12,13}\text{C}$, ${}^{16}\text{O}(K^-, \pi^-)$, E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ${}^5\text{He}$, ${}^7\text{Li}$, ${}^9\text{Be}$, ${}^{11}\text{B}$, ${}^{12,13}\text{C}$, ${}^{15}\text{N}$, ${}^{16}\text{O}$; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c
- 2009LI51 NUCLEAR REACTIONS ${}^9\text{Be}({}^{26}\text{Mg}, X)$, $E=68.8$ MeV; measured isotopic yields. ${}^6\text{He}$, ${}^{7,8,9}\text{Li}$, ${}^{9,10,11,12}\text{Be}$, ${}^{12,13,14,15,17}\text{B}$, ${}^{15,16,17,18,19}\text{C}$, ${}^{19,20,21}\text{N}$, ${}^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315
- 2009VE12 NUCLEAR REACTIONS ${}^6\text{Li}$, ${}^{10}\text{B}(\text{polarized } n, \alpha)$, $E=\text{low}$; measured parity-violating emission asymmetry coefficient with ultracold polarized neutrons; deduced weak neutral current constant. JOUR NUPAB 827 425c
- 2010LI01 RADIOACTIVITY ${}^7\text{Be}(\text{EC})$; measured E_γ , I_γ ; deduced decay constant, $T_{1/2}$ variation in Pt and Al foils. Comparison with TB-LMTO calculations. JOUR CPLEE 27 012301
- ${}^7\text{Be}$ 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) 1n / ${}^6\text{He}$ / ${}^8\text{He}$ / ${}^8\text{Li}$ / ${}^9\text{Li}$ / ${}^7\text{Be}$ / ${}^{10}\text{Be}$ / ${}^{11}\text{Be}$ / ${}^8\text{B}$ / ${}^{10}\text{B}$ / ${}^{12}\text{B}$ / ${}^{13}\text{B}$ / ${}^9\text{C}$ / ${}^{10}\text{C}$ / ${}^{11}\text{C}$ / ${}^{12}\text{N}$ / ${}^{13}\text{N}$ / ${}^{15}\text{O}$, $E=\text{cosmic ray muons}$; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- 2010LI01 RADIOACTIVITY ${}^7\text{Be}(\text{EC})$; measured E_γ , I_γ ; deduced decay constant, $T_{1/2}$ variation in Pt and Al foils. Comparison with TB-LMTO calculations. JOUR CPLEE 27 012301

A=8

- ${}^8\text{He}$ 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) 1n / ${}^6\text{He}$ / ${}^8\text{He}$ / ${}^8\text{Li}$ / ${}^9\text{Li}$ / ${}^7\text{Be}$ / ${}^{10}\text{Be}$ / ${}^{11}\text{Be}$ / ${}^8\text{B}$ / ${}^{10}\text{B}$ / ${}^{12}\text{B}$ / ${}^{13}\text{B}$ / ${}^9\text{C}$ / ${}^{10}\text{C}$ / ${}^{11}\text{C}$ / ${}^{12}\text{N}$ / ${}^{13}\text{N}$ / ${}^{15}\text{O}$, $E=\text{cosmic ray muons}$; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- 2010MI01 RADIOACTIVITY ${}^8\text{He}(\beta^-)$ [from C(${}^{11}\text{B}$, X) ${}^8\text{He}$, $E=33$ MeV / nucleon]; measured recoils, β^- -delayed decays, E_α , I_α , I_t , E_t , I_n , E_n ; deduced feasibility of β^- -decay studies of ${}^8\text{He}$. JOUR APOBB 41 449
- ${}^8\text{Li}$ 2009LI51 NUCLEAR REACTIONS ${}^9\text{Be}({}^{26}\text{Mg}, X)$, $E=68.8$ MeV; measured isotopic yields. ${}^6\text{He}$, ${}^{7,8,9}\text{Li}$, ${}^{9,10,11,12}\text{Be}$, ${}^{12,13,14,15,17}\text{B}$, ${}^{15,16,17,18,19}\text{C}$, ${}^{19,20,21}\text{N}$, ${}^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315

KEYNUMBERS AND KEYWORDS

A=8 (continued)

- 2009RU13 NUCLEAR REACTIONS ${}^7\text{Li}({}^{18}\text{O}, {}^{17}\text{O})$, E=114 MeV; measured particle spectra, $\sigma(\theta)$; deduced reaction mechanism features and Woods-Saxon potential parameters using coupled-reaction-channels analysis. JOUR NUPAB 831 139
- 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) ${}^1\text{n}$ / ${}^6\text{He}$ / ${}^8\text{He}$ / ${}^8\text{Li}$ / ${}^9\text{Li}$ / ${}^7\text{Be}$ / ${}^{10}\text{Be}$ / ${}^{11}\text{Be}$ / ${}^8\text{B}$ / ${}^{10}\text{B}$ / ${}^{12}\text{B}$ / ${}^{13}\text{B}$ / ${}^9\text{C}$ / ${}^{10}\text{C}$ / ${}^{11}\text{C}$ / ${}^{12}\text{N}$ / ${}^{13}\text{N}$ / ${}^{15}\text{O}$, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- 2010MI01 RADIOACTIVITY ${}^8\text{He}(\beta^-)$ [from C(${}^{11}\text{B}$, X) ${}^8\text{He}$, E=33 MeV / nucleon]; measured recoils, β -delayed decays, E α , I α , It, Et, In, En; deduced feasibility of β -decay studies of ${}^8\text{He}$. JOUR APOBB 41 449
- ${}^8\text{B}$ 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) ${}^1\text{n}$ / ${}^6\text{He}$ / ${}^8\text{He}$ / ${}^8\text{Li}$ / ${}^9\text{Li}$ / ${}^7\text{Be}$ / ${}^{10}\text{Be}$ / ${}^{11}\text{Be}$ / ${}^8\text{B}$ / ${}^{10}\text{B}$ / ${}^{12}\text{B}$ / ${}^{13}\text{B}$ / ${}^9\text{C}$ / ${}^{10}\text{C}$ / ${}^{11}\text{C}$ / ${}^{12}\text{N}$ / ${}^{13}\text{N}$ / ${}^{15}\text{O}$, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807

A=9

- ${}^9\text{Li}$ 2009LI51 NUCLEAR REACTIONS ${}^9\text{Be}({}^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ${}^6\text{He}$, ${}^{7,8,9}\text{Li}$, ${}^{9,10,11,12}\text{Be}$, ${}^{12,13,14,15,17}\text{B}$, ${}^{15,16,17,18,19}\text{C}$, ${}^{19,20,21}\text{N}$, ${}^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315
- 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) ${}^1\text{n}$ / ${}^6\text{He}$ / ${}^8\text{He}$ / ${}^8\text{Li}$ / ${}^9\text{Li}$ / ${}^7\text{Be}$ / ${}^{10}\text{Be}$ / ${}^{11}\text{Be}$ / ${}^8\text{B}$ / ${}^{10}\text{B}$ / ${}^{12}\text{B}$ / ${}^{13}\text{B}$ / ${}^9\text{C}$ / ${}^{10}\text{C}$ / ${}^{11}\text{C}$ / ${}^{12}\text{N}$ / ${}^{13}\text{N}$ / ${}^{15}\text{O}$, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- ${}^9\text{Be}$ 2009AG13 NUCLEAR REACTIONS ${}^{6,7}\text{Li}$, ${}^9\text{Be}$, ${}^{12,13}\text{C}$, ${}^{16}\text{O}(\text{K}^-, \pi^-)$, E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ${}^5\text{He}$, ${}^7\text{Li}$, ${}^9\text{Be}$, ${}^{11}\text{B}$, ${}^{12,13}\text{C}$, ${}^{15}\text{N}$, ${}^{16}\text{O}$; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c
- 2009BUZY NUCLEAR REACTIONS ${}^9\text{Be}(e, e')$, E=73 MeV; measured Ee, Ie, $\theta(e)$; deduced σ , $\sigma({}^9\text{Be}(\gamma, n))$, resonance parameters. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P283,Burda
- 2009LI51 NUCLEAR REACTIONS ${}^9\text{Be}({}^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ${}^6\text{He}$, ${}^{7,8,9}\text{Li}$, ${}^{9,10,11,12}\text{Be}$, ${}^{12,13,14,15,17}\text{B}$, ${}^{15,16,17,18,19}\text{C}$, ${}^{19,20,21}\text{N}$, ${}^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315
- 2010GL01 NUCLEAR REACTIONS ${}^9\text{Be}({}^{16}\text{O}, {}^{16}\text{O}')$, E=132 MeV; measured reaction products; deduced $\sigma(\theta)$, rainbow scattering. JOUR PANUE 73 14
- ${}^9\text{B}$ 2009SCZX NUCLEAR REACTIONS ${}^9\text{Be}({}^3\text{He}, t)$, E* \approx 0-17 MeV; measured E(particle), I(particle) at 0 degrees; deduced GT strengths. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P544,Scholl

KEYNUMBERS AND KEYWORDS

A=9 (continued)

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| | 2009UE01 | NUCLEAR REACTIONS $^{10}\text{B}(e, e'n)$, $E=200$ MeV; measured neutron spectra, σ , and $\sigma(\theta)$; deduced levels, J , π , missing energy spectrum, giant resonances. Comparison with results from (γ, n) reactions and shell model calculations. JOUR PRVCA 80 064609 |
| ^9C | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ, X) ^1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , $E=\text{cosmic ray muons}$; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |

A=10

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| ^{10}Be | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, X)$, $E=68.8$ MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |
| | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ, X) ^1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , $E=\text{cosmic ray muons}$; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |
| ^{10}B | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ, X) ^1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , $E=\text{cosmic ray muons}$; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |
| | 2010MC01 | NUCLEAR REACTIONS $^9\text{Be}(^{54}\text{Ti}, ^{53}\text{Sc})$, $E=72$ MeV / nucleon; measured $E\gamma$, $I\gamma$, (particle) γ -coin using SeGA array, σ , and parallel momentum distributions in one-proton knockout reaction. ^{53}Sc ; deduced levels, J , π and configurations. Comparison with shell model calculations. JOUR PRVCA 81 024301 |
| ^{10}C | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ, X) ^1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , $E=\text{cosmic ray muons}$; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |

A=11

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| ^{11}Be | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, X)$, $E=68.8$ MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |
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KEYNUMBERS AND KEYWORDS

A=11 (continued)

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| | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ , X) 1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |
| ^{11}B | 2009AG13 | NUCLEAR REACTIONS $^{6,7}\text{Li}$, ^9Be , $^{12,13}\text{C}$, $^{16}\text{O}(\text{K}^-, \pi^-)$, E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ^5He , ^7Li , ^9Be , ^{11}B , $^{12,13}\text{C}$, ^{15}N , ^{16}O ; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c |
| | 2009TA34 | NUCLEAR REACTIONS $^{12}\text{C}(\text{e}, \text{e}^p)$, E=197.5 MeV; measured E_p , I_p , σ , $\sigma(\theta)$, and reduced cross sections. Comparison with relativistic distorted-wave impulse approximation calculations and the $^{12}\text{C}(\gamma, p)$ reaction. JOUR PRVCA 80 064601 |
| ^{11}C | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ , X) 1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |

A=12

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| ^{12}Li | 2010HA04 | NUCLEAR REACTIONS $\text{Be}(^{14}\text{B}, 2p)$, E=53.4 MeV / nucleon; measured neutron and ^{11}Li spectra from decay of ^{12}Li , and (^{11}Li)n-coin using Modular Neutron Array (MONA). ^{12}Li ; deduced levels, J, π . Comparisons with shell model calculations using WBP interaction. JOUR PRVCA 81 021302 |
| ^{12}Be | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |
| | 2010ET01 | ATOMIC MASSES ^{12}Be ; measured mass excess using Penning trap mass spectrometer TITAN at TRIUMF. Comparison with previous measurements and evaluations. Analyzed IMME for the lowest lying isospin T=2 multiplet in the A=12 system. JOUR PRVCA 81 024314 |
| | 2010KA03 | NUCLEAR REACTIONS $^2\text{H}(^{11}\text{Be}, p)$, E=5 MeV / nucleon; measured proton spectra, recoiling and product nucleus spectra, p(nucleus)-coin; deduced $\sigma(\theta)$, Q-value spectra, peak widths. ^{12}Be ; deduced energy levels, J, π , spectroscopic factors using DWBA analysis. JOUR PYLBB 682 391 |
| ^{12}B | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |

A=12 (*continued*)

- 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) 1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- 2010HY01 RADIOACTIVITY $^{12}\text{N}(\beta^+)$, $^{12}\text{B}(\beta^-)$; measured 3α summed spectra and associated branching ratios for breakup via the ^8Be ground-state and via excited states of ^8Be . ^{12}C ; deduced levels, resonances, Gamow-Teller strengths and widths using multilevel, many-channel R-matrix formalism. JOUR PRVCA 81 024303
- 2010LE02 NUCLEAR REACTIONS $^2\text{H}(^{11}\text{B}, \text{p})$, E=81 MeV; $^2\text{H}(^{12}\text{B}, \text{p})$, E=75 MeV; measured proton and $^{11,12,13}\text{B}$ particle spectra, $\sigma(\theta)$. $^{12,13}\text{B}$; deduced levels, J, π , l-transfers. Comparison with DWBA calculations. ^{11}B , $^{12}\text{B}(\text{n}, \gamma)$; deduced reaction rates of astrophysical relevance, and abundances of ^{11}B and ^{12}B in r process. JOUR PRVCA 81 015802
- 2010ZH03 NUCLEAR MOMENTS ^{12}B , ^{12}N ; measured β -NMR spectra; deduced magnetic moments, magic numbers. Comparison with shell model calculations. JOUR CPLEE 27 022102
- ^{12}C 2009AG13 NUCLEAR REACTIONS $^{6,7}\text{Li}$, ^9Be , $^{12,13}\text{C}$, $^{16}\text{O}(\text{K}^-, \pi^-)$, E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ^5He , ^7Li , ^9Be , ^{11}B , $^{12,13}\text{C}$, ^{15}N , ^{16}O ; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c
- 2009CHZX NUCLEAR REACTIONS $^{12}\text{C}(\text{e}, \text{e}')$, E=73 MeV; measured E(e), I(e), $\theta(\text{e})$; deduced monopole matrix element using also other data, formfactor, Hoyle state pair width; calculated using PWBA and Fourier-Bessel analysis. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P53,Chernykh
- 2009C024 NUCLEAR REACTIONS $^{12}\text{C}(^{128}\text{Xe}, ^{128}\text{Xe}')$, E=404 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, and γ -ray yields in Coulomb excitation using Gammasphere array. ^{128}Xe ; deduced levels, J, π , B(E2), and B(E2) ratios. Tested validity of E(5) symmetry. JOUR PRVCA 80 061304
- 2009C0ZY NUCLEAR REACTIONS $^{12}\text{C}(^{124}\text{Xe}, ^{124}\text{Xe}')$, E=394 MeV; $^{12}\text{C}(^{126}\text{Xe}, ^{126}\text{Xe}')$, E=399 MeV; $^{12}\text{C}(^{128}\text{Xe}, ^{128}\text{Xe}')$, E=404 MeV; $^{12}\text{C}(^{130}\text{Xe}, ^{130}\text{Xe}')$, E=409 MeV; $^{12}\text{C}(^{132}\text{Xe}, ^{132}\text{Xe}')$, E=414 MeV; $^{12}\text{C}(^{134}\text{Xe}, ^{134}\text{Xe}')$, E=435 MeV; measured Coulomb excitation E γ , I γ , γ - γ -coin.; deduced E(2 $^+$), B(M1) strength. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P140,Coquard
- 2009FU17 NUCLEAR REACTIONS ^{12}C , ^{16}O , $^{40,42,48}\text{Ca}(^7\text{Li}, \text{t}\alpha)^{12}\text{C}$ / ^{16}O / ^{40}Ca / ^{42}Ca / ^{48}Ca / ^{44}Ti / ^{46}Ti / ^{52}Ti , E=26.0 MeV; measured particle-spectra, $\text{t}\alpha$ -coin, and $\text{t}\alpha(\theta)$; deduced relative ratios of reaction cross sections. $^{44,46,52}\text{Ti}$; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613
- 2009MOZW NUCLEAR REACTIONS $^1\text{H}(\text{n}, \text{n}')$, E=100 eV-15 keV; $^{12}\text{C}(\text{n}, \text{n}')$, E=64-15 keV; measured En, In, $\theta(\text{n})$; deduced (^{12}C H $_2$) / ^{12}C intensity ratio. ^1H in the CH $_2$ compound; ^{12}C both as an element compound and in the form of CH $_2$ compound. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P102,Moreh

A=12 (continued)

- 2009MUZW NUCLEAR REACTIONS $^{12}\text{C}(^{88}\text{Kr}, ^{88}\text{Kr}')$, E not given; $^{109}\text{Ag}(^{92}\text{Kr}, ^{92}\text{Kr}')$, E not given; measured Coulomb excitation $E\gamma$, $I\gamma$; deduced $^{88,92}\text{Kr}$ B(E2). ^{92}Kr B(E2) in contrast to what was supposed. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P587,Mucher
- 2009MUZX NUCLEAR REACTIONS $^{12}\text{C}(^{70}\text{Zn}, ^{70}\text{Zn}')$, E=200 MeV; measured Coulomb excitation $E\gamma$, $I\gamma$, $\theta(\gamma)$, $\gamma\gamma(\theta)$ -coin.; deduced ^{70}Zn $T_{1/2}$, g-factor, ν orbital in the wavefunction. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P512,Mucher
- 2009RAZY NUCLEAR REACTIONS $^{12}\text{C}(^{124}\text{Xe}, ^{124}\text{Xe}')$, E=394 MeV; measured Coulomb excitation $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced E, J, π , B(E2); calculated E, J, π , B(E2) using IBM-1. Compared together, discussed O(5) and O(6) symmetry realizations. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P263,Rainovski
- 2010HY01 RADIOACTIVITY $^{12}\text{N}(\beta^+)$, $^{12}\text{B}(\beta^-)$; measured 3α summed spectra and associated branching ratios for breakup via the ^8Be ground-state and via excited states of ^8Be . ^{12}C ; deduced levels, resonances, Gamow-Teller strengths and widths using multilevel, many-channel R-matrix formalism. JOUR PRVCA 81 024303
- 2010RA05 NUCLEAR REACTIONS $^{12}\text{C}(^{124}\text{Xe}, ^{124}\text{Xe}')$, E=394 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using DSA technique and the Gammasphere array. ^{124}Xe ; deduced levels, J, π , B(E2). Comparison with interacting boson model. JOUR PYLBB 683 11
- ^{12}N 2010AB05 NUCLEAR REACTIONS C, N, O(μ , X) ^1n / ^6He / ^8He / ^8Li / ^9Li / ^7Be / ^{10}Be / ^{11}Be / ^8B / ^{10}B / ^{12}B / ^{13}B / ^9C / ^{10}C / ^{11}C / ^{12}N / ^{13}N / ^{15}O , E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807
- 2010HY01 RADIOACTIVITY $^{12}\text{N}(\beta^+)$, $^{12}\text{B}(\beta^-)$; measured 3α summed spectra and associated branching ratios for breakup via the ^8Be ground-state and via excited states of ^8Be . ^{12}C ; deduced levels, resonances, Gamow-Teller strengths and widths using multilevel, many-channel R-matrix formalism. JOUR PRVCA 81 024303
- 2010ZH03 NUCLEAR MOMENTS ^{12}B , ^{12}N ; measured β -NMR spectra; deduced magnetic moments, magic numbers. Comparison with shell model calculations. JOUR CPLEE 27 022102

A=13

- ^{13}B 2009IWZZ NUCLEAR REACTIONS $^7\text{Li}(^7\text{Li}, \text{p})$, E not given; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; deduced 3.68 MeV state half-life, B(E1). Compared to near-by nuclei. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P440,Iwasaki
- 2009LI51 NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ^6He , $^7,8,9\text{Li}$, $^9,10,11,12\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315

KEYNUMBERS AND KEYWORDS

A=13 (continued)

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| | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ , X) ¹ n / ⁶ He / ⁸ He / ⁸ Li / ⁹ Li / ⁷ Be / ¹⁰ Be / ¹¹ Be / ⁸ B / ¹⁰ B / ¹² B / ¹³ B / ⁹ C / ¹⁰ C / ¹¹ C / ¹² N / ¹³ N / ¹⁵ O, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |
| | 2010LE02 | NUCLEAR REACTIONS ² H(¹¹ B, p), E=81 MeV; ² H(¹² B, p), E=75 MeV; measured proton and ^{11,12,13} B particle spectra, $\sigma(\theta)$. ^{12,13} B; deduced levels, J, π , l-transfers. Comparison with DWBA calculations. ¹¹ B, ¹² B(n, γ); deduced reaction rates of astrophysical relevance, and abundances of ¹¹ B and ¹² B in r process. JOUR PRVCA 81 015802 |
| ¹³ C | 2008GIZY | NUCLEAR REACTIONS ¹⁶ O(n, α), E=3.95-9 MeV; measured E α , I α ; deduced $\sigma(E^*)$. Compared to other data, ENDF / B-VI.8, ENDF / B-VII.0. CONF Nice (Nucl Data for Sci and Technol) Proc,P525 |
| | 2009AG13 | NUCLEAR REACTIONS ^{6,7} Li, ⁹ Be, ^{12,13} C, ¹⁶ O(K ⁻ , π^-), E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ⁵ He, ⁷ Li, ⁹ Be, ¹¹ B, ^{12,13} C, ¹⁵ N, ¹⁶ O; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c |
| ¹³ N | 2010AB05 | NUCLEAR REACTIONS C, N, O(μ , X) ¹ n / ⁶ He / ⁸ He / ⁸ Li / ⁹ Li / ⁷ Be / ¹⁰ Be / ¹¹ Be / ⁸ B / ¹⁰ B / ¹² B / ¹³ B / ⁹ C / ¹⁰ C / ¹¹ C / ¹² N / ¹³ N / ¹⁵ O, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807 |

A=14

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| ¹⁴ B | 2009LI51 | NUCLEAR REACTIONS ⁹ Be(²⁶ Mg, X), E=68.8 MeV; measured isotopic yields. ⁶ He, ^{7,8,9} Li, ^{9,10,11,12} Be, ^{12,13,14,15,17} B, ^{15,16,17,18,19} C, ^{19,20,21} N, ^{22,23} O; measured yields. JOUR PRVCA 80 054315 |
| ¹⁴ O | 2010JI02 | NUCLEAR REACTIONS ¹ H(¹⁷ F, α), (¹⁷ F, γ), E=55.5 MeV; measured recoil nuclei, E α , I α ; deduced $\sigma(\theta)$, excitation function, ¹⁸ Ne resonance states, J, π . JOUR CPLEE 27 032102 |

A=15

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| ¹⁵ B | 2009LI51 | NUCLEAR REACTIONS ⁹ Be(²⁶ Mg, X), E=68.8 MeV; measured isotopic yields. ⁶ He, ^{7,8,9} Li, ^{9,10,11,12} Be, ^{12,13,14,15,17} B, ^{15,16,17,18,19} C, ^{19,20,21} N, ^{22,23} O; measured yields. JOUR PRVCA 80 054315 |
| ¹⁵ C | 2009LI51 | NUCLEAR REACTIONS ⁹ Be(²⁶ Mg, X), E=68.8 MeV; measured isotopic yields. ⁶ He, ^{7,8,9} Li, ^{9,10,11,12} Be, ^{12,13,14,15,17} B, ^{15,16,17,18,19} C, ^{19,20,21} N, ^{22,23} O; measured yields. JOUR PRVCA 80 054315 |

KEYNUMBERS AND KEYWORDS

A=15 (continued)

- ¹⁵N 2009AG13 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ^{12,13}C, ¹⁶O(K⁻, π⁻), E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ⁵He, ⁷Li, ⁹Be, ¹¹B, ^{12,13}C, ¹⁵N, ¹⁶O; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c
- ¹⁵O 2010AB05 NUCLEAR REACTIONS C, N, O(μ, X)¹n / ⁶He / ⁸He / ⁸Li / ⁹Li / ⁷Be / ¹⁰Be / ¹¹Be / ⁸B / ¹⁰B / ¹²B / ¹³B / ⁹C / ¹⁰C / ¹¹C / ¹²N / ¹³N / ¹⁵O, E=cosmic ray muons; measured yields of muon induced spallations produced in KamLAND scintillation detector; MUSIC, FLUKA, and GEANT4 Monte Carlo simulations. JOUR PRVCA 81 025807

A=16

- ¹⁶C 2009IWZZ RADIOACTIVITY ^{16,18}C(β⁻)[from RIPS fragment separator]; measured Eγ, Iγ, θ(γ); deduced 2⁺-state half-life, B(E2) using recoil shadow method. Compared to near-by nuclei. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P440,Iwasaki
- 2009LI51 NUCLEAR REACTIONS ⁹Be(²⁶Mg, X), E=68.8 MeV; measured isotopic yields. ⁶He, ^{7,8,9}Li, ^{9,10,11,12}Be, ^{12,13,14,15,17}B, ^{15,16,17,18,19}C, ^{19,20,21}N, ^{22,23}O; measured yields. JOUR PRVCA 80 054315
- ¹⁶N 2009IWZZ RADIOACTIVITY ^{16,18}C(β⁻)[from RIPS fragment separator]; measured Eγ, Iγ, θ(γ); deduced 2⁺-state half-life, B(E2) using recoil shadow method. Compared to near-by nuclei. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P440,Iwasaki
- ¹⁶O 2009AG13 NUCLEAR REACTIONS ^{6,7}Li, ⁹Be, ^{12,13}C, ¹⁶O(K⁻, π⁻), E at rest; measured negative pion spectra, proton spectra, p(pion)-coin from decaying hypernucleus. ⁵He, ⁷Li, ⁹Be, ¹¹B, ^{12,13}C, ¹⁵N, ¹⁶O; deduced decay rates, widths and decay ratio for these hypernuclei. Comparison with other data. JOUR NUPAB 827 303c
- 2009FU17 NUCLEAR REACTIONS ¹²C, ¹⁶O, ^{40,42,48}Ca(⁷Li, tα)¹²C / ¹⁶O / ⁴⁰Ca / ⁴²Ca / ⁴⁸Ca / ⁴⁴Ti / ⁴⁶Ti / ⁵²Ti, E=26.0 MeV; measured particle-spectra, tα-coin, and tα(θ); deduced relative ratios of reaction cross sections. ^{44,46,52}Ti; deduced levels, J, π, α-cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613
- 2009MA70 NUCLEAR REACTIONS ¹³C(α, γ), (α, n), E=2.000, 2.270 MeV; measured Eγ, Iγ, γ(θ), En, σ, and σ(θ); deduced astrophysical S factors. Comparison with previous experimental data. ²⁷Al, ¹²⁷I, ^{206,207,208}Pb(n, n'), E=3.5-4.4 MeV; ¹²⁷I(n, γ), E=10.1-11.3 MeV; measured Eγ. JOUR PRVCA 80 065802
- 2010HA02 NUCLEAR REACTIONS ¹²C(¹³C, ⁹Be), E=141 MeV; measured reaction fragments; deduced high-spin states in ¹⁶O, decay widths, precise values for the α-decay branching ratios from the high-spin states. JOUR JPGPE 37 035103

KEYNUMBERS AND KEYWORDS

A=17

- ¹⁷B 2009LI51 NUCLEAR REACTIONS ⁹Be(²⁶Mg, X), E=68.8 MeV; measured isotopic yields. ⁶He, ^{7,8,9}Li, ^{9,10,11,12}Be, ^{12,13,14,15,17}B, ^{15,16,17,18,19}C, ^{19,20,21}N, ^{22,23}O; measured yields. JOUR PRVCA 80 054315
- ¹⁷C 2009LI51 NUCLEAR REACTIONS ⁹Be(²⁶Mg, X), E=68.8 MeV; measured isotopic yields. ⁶He, ^{7,8,9}Li, ^{9,10,11,12}Be, ^{12,13,14,15,17}B, ^{15,16,17,18,19}C, ^{19,20,21}N, ^{22,23}O; measured yields. JOUR PRVCA 80 054315
- ¹⁷O 2009CH64 NUCLEAR REACTIONS ¹H(¹⁷F, γ)¹⁸Ne, E=14.3 MeV; ¹H(¹⁷O, γ)¹⁸F, E=18.65 MeV; ²⁰Ne(¹⁷O, ²⁰Ne), E=18.65 MeV; measured recoils, σ at HRIBF facility; deduced widths of resonances, abundances of ^{17,18}F and ¹⁷O in novae and x-ray bursts, and reaction rates for ¹⁷F(π , γ)¹⁸Ne reaction; discussed astrophysical implications. JOUR PRVCA 80 065810
- 2009MA70 NUCLEAR REACTIONS ¹³C(α , γ), (α , n), E=2.000, 2.270 MeV; measured E γ , I γ , γ (θ), En, σ , and σ (θ); deduced astrophysical S factors. Comparison with previous experimental data. ²⁷Al, ¹²⁷I, ^{206,207,208}Pb(n, n'), E=3.5-4.4 MeV; ¹²⁷I(n, γ), E=10.1-11.3 MeV; measured E γ . JOUR PRVCA 80 065802

A=18

- ¹⁸C 2009IWZZ RADIOACTIVITY ^{16,18}C(β^-)[from RIPS fragment separator]; measured E γ , I γ , θ (γ); deduced 2⁺-state half-life, B(E2) using recoil shadow method. Compared to near-by nuclei. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P440,Iwasaki
- 2009LI51 NUCLEAR REACTIONS ⁹Be(²⁶Mg, X), E=68.8 MeV; measured isotopic yields. ⁶He, ^{7,8,9}Li, ^{9,10,11,12}Be, ^{12,13,14,15,17}B, ^{15,16,17,18,19}C, ^{19,20,21}N, ^{22,23}O; measured yields. JOUR PRVCA 80 054315
- ¹⁸N 2009IWZZ RADIOACTIVITY ^{16,18}C(β^-)[from RIPS fragment separator]; measured E γ , I γ , θ (γ); deduced 2⁺-state half-life, B(E2) using recoil shadow method. Compared to near-by nuclei. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P440,Iwasaki
- ¹⁸F 2009CH64 NUCLEAR REACTIONS ¹H(¹⁷F, γ)¹⁸Ne, E=14.3 MeV; ¹H(¹⁷O, γ)¹⁸F, E=18.65 MeV; ²⁰Ne(¹⁷O, ²⁰Ne), E=18.65 MeV; measured recoils, σ at HRIBF facility; deduced widths of resonances, abundances of ^{17,18}F and ¹⁷O in novae and x-ray bursts, and reaction rates for ¹⁷F(π , γ)¹⁸Ne reaction; discussed astrophysical implications. JOUR PRVCA 80 065810
- ¹⁸Ne 2009CH64 NUCLEAR REACTIONS ¹H(¹⁷F, γ)¹⁸Ne, E=14.3 MeV; ¹H(¹⁷O, γ)¹⁸F, E=18.65 MeV; ²⁰Ne(¹⁷O, ²⁰Ne), E=18.65 MeV; measured recoils, σ at HRIBF facility; deduced widths of resonances, abundances of ^{17,18}F and ¹⁷O in novae and x-ray bursts, and reaction rates for ¹⁷F(π , γ)¹⁸Ne reaction; discussed astrophysical implications. JOUR PRVCA 80 065810
- 2009CHZW NUCLEAR REACTIONS ¹H(¹⁷F, γ), E not given; measured E(recoils), I(recoils); deduced reaction rate for T₉=0.1-1.0. Compared to other papers. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P471,Chippis

KEYNUMBERS AND KEYWORDS

A=18 (continued)

2010JI02 NUCLEAR REACTIONS $^1\text{H}(^{17}\text{F}, \alpha)$, $(^{17}\text{F}, \gamma)$, E=55.5 MeV; measured recoil nuclei, E α , I α ; deduced $\sigma(\theta)$, excitation function, ^{18}Ne resonance states, J, π . JOUR CPLEE 27 032102

A=19

^{19}C 2009LI51 NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315

2009NA39 NUCLEAR REACTIONS Pb, C(^{31}Ne , ^{30}Ne), (^{19}C , ^{18}C) E=230-243 MeV / nucleon; ^{31}Ne , ^{19}C ; measured reaction fragments; deduced inclusive one-neutron removal σ , soft E1 excitations for ^{31}Ne , B(E1). Secondary beams from 48Ca fragmentation. JOUR PRLTA 103 262501

2010TA04 NUCLEAR REACTIONS $^1\text{H}(^{19}\text{C}, ^{19}\text{C}')$, $(^{20}\text{C}, ^{20}\text{C}')$, $(^{22}\text{C}, ^{22}\text{C}')$, E=40 MeV / nucleon; measured reaction products; $^{19,20,22}\text{C}$; deduced σ , rms matter radii, neutron halo. Secondary beams from ^{40}Ar fragmentation. JOUR PRLTA 104 062701

^{19}N 2009LI51 NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315

^{19}O 2009RAZW NUCLEAR REACTIONS $^2\text{H}(^{20}\text{O}, \text{p})$, $(^{20}\text{O}, \text{t})$, $(^{26}\text{Ne}, \text{p})$, $(^{26}\text{Ne}, \text{t})$, E=10 MeV / nucleon; measured heavy fragments, Ep, Ip, Et, It, E γ , I γ ; deduced excitation energy spectra, level scheme, energies, angular momenta, spectroscopic factors, shell closure data. REPT IPNO-T-09-07,Ramus

A=20

^{20}C 2010TA04 NUCLEAR REACTIONS $^1\text{H}(^{19}\text{C}, ^{19}\text{C}')$, $(^{20}\text{C}, ^{20}\text{C}')$, $(^{22}\text{C}, ^{22}\text{C}')$, E=40 MeV / nucleon; measured reaction products; $^{19,20,22}\text{C}$; deduced σ , rms matter radii, neutron halo. Secondary beams from ^{40}Ar fragmentation. JOUR PRLTA 104 062701

^{20}N 2009LI51 RADIOACTIVITY $^{21}\text{N}(\beta^-)$, $(\beta^- \text{n})$ [from $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV]; measured E γ , I γ , E β , I β , En, In, $\beta\text{n-}$, $\beta\gamma\text{-}$, $\beta\gamma\text{n-coin}$, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J, π , branching ratios, logft values and B(GT). Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E γ . JOUR PRVCA 80 054315

2009LI51 NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315

^{20}O 2009LI51 RADIOACTIVITY $^{21}\text{N}(\beta^-)$, $(\beta^- \text{n})$ [from $^9\text{Be}(^{26}\text{Mg}, \text{X})$, E=68.8 MeV]; measured E γ , I γ , E β , I β , En, In, $\beta\text{n-}$, $\beta\gamma\text{-}$, $\beta\gamma\text{n-coin}$, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J, π , branching ratios, logft values and B(GT). Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E γ . JOUR PRVCA 80 054315

KEYNUMBERS AND KEYWORDS

A=20 (continued)

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| | 2010SU03 | RADIOACTIVITY $^{22}\text{N}(\beta^-)$, (β^-n) , (β^-2n) [from $\text{Be}(^{48}\text{Ca}, \text{X})$, $E=140$ MeV / nucleon]; measured E_γ , I_γ , $E\beta$, $I\beta$, $E\nu$, $I\nu$, $\beta\gamma$ -coin, half-lives, branching ratios; deduced logft. $^{20,21,22}\text{O}$; deduced levels, J , π , $B(\text{GT})$ values. Comparison with shell model calculations. Discussed halo structure and shell closure. JOUR PRVCA 81 014302 |
| ^{20}F | 2009LI51 | RADIOACTIVITY $^{21}\text{N}(\beta^-)$, (β^-n) [from $^9\text{Be}(^{26}\text{Mg}, \text{X})$, $E=68.8$ MeV]; measured E_γ , I_γ , $E\beta$, $I\beta$, E_n , I_n , βn^- , $\beta\gamma^-$, $\beta\gamma n$ -coin, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J , π , branching ratios, logft values and $B(\text{GT})$. Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E_γ . JOUR PRVCA 80 054315 |
| ^{20}Ne | 2009LI51 | RADIOACTIVITY $^{21}\text{N}(\beta^-)$, (β^-n) [from $^9\text{Be}(^{26}\text{Mg}, \text{X})$, $E=68.8$ MeV]; measured E_γ , I_γ , $E\beta$, $I\beta$, E_n , I_n , βn^- , $\beta\gamma^-$, $\beta\gamma n$ -coin, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J , π , branching ratios, logft values and $B(\text{GT})$. Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E_γ . JOUR PRVCA 80 054315 |

A=21

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| ^{21}N | 2009LI51 | RADIOACTIVITY $^{21}\text{N}(\beta^-)$, (β^-n) [from $^9\text{Be}(^{26}\text{Mg}, \text{X})$, $E=68.8$ MeV]; measured E_γ , I_γ , $E\beta$, $I\beta$, E_n , I_n , βn^- , $\beta\gamma^-$, $\beta\gamma n$ -coin, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J , π , branching ratios, logft values and $B(\text{GT})$. Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E_γ . JOUR PRVCA 80 054315 |
| | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, \text{X})$, $E=68.8$ MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |
| ^{21}O | 2009LI51 | RADIOACTIVITY $^{21}\text{N}(\beta^-)$, (β^-n) [from $^9\text{Be}(^{26}\text{Mg}, \text{X})$, $E=68.8$ MeV]; measured E_γ , I_γ , $E\beta$, $I\beta$, E_n , I_n , βn^- , $\beta\gamma^-$, $\beta\gamma n$ -coin, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J , π , branching ratios, logft values and $B(\text{GT})$. Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E_γ . JOUR PRVCA 80 054315 |
| | 2009RAZV | NUCLEAR REACTIONS $^2\text{H}(^{20}\text{O}, \text{p})$, $(^{20}\text{O}, \text{t})$, $(^{26}\text{Ne}, \text{p})$, $(^{26}\text{Ne}, \text{t})$, $E=10$ MeV / nucleon; measured heavy fragments, E_p , I_p , E_t , I_t , E_γ , I_γ ; deduced excitation energy spectra, level scheme, energies, angular momenta, spectroscopic factors, shell closure data. REPT IPNO-T-09-07,Ramus |
| | 2010SU03 | RADIOACTIVITY $^{22}\text{N}(\beta^-)$, (β^-n) , (β^-2n) [from $\text{Be}(^{48}\text{Ca}, \text{X})$, $E=140$ MeV / nucleon]; measured E_γ , I_γ , $E\beta$, $I\beta$, $E\nu$, $I\nu$, $\beta\gamma$ -coin, half-lives, branching ratios; deduced logft. $^{20,21,22}\text{O}$; deduced levels, J , π , $B(\text{GT})$ values. Comparison with shell model calculations. Discussed halo structure and shell closure. JOUR PRVCA 81 014302 |

KEYNUMBERS AND KEYWORDS

A=21 (continued)

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| ^{21}F | 2009LI51 | RADIOACTIVITY $^{21}\text{N}(\beta^-)$, (β^-n) [from $^9\text{Be}(^{26}\text{Mg}, X)$, $E=68.8$ MeV]; measured E_γ , I_γ , $E\beta$, $I\beta$, E_n , I_n , βn -, $\beta\gamma$ -, $\beta\gamma n$ -coin, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J , π , branching ratios, logft values and $B(\text{GT})$. Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E_γ . JOUR PRVCA 80 054315 |
| ^{21}Ne | 2009ACZZ | RADIOACTIVITY $^{21}\text{Na}(\beta^+)$; measured E_γ , I_γ ; deduced $\sigma(\text{GT}) / \sigma$. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P362,Achouri |
| | 2009LI51 | RADIOACTIVITY $^{21}\text{N}(\beta^-)$, (β^-n) [from $^9\text{Be}(^{26}\text{Mg}, X)$, $E=68.8$ MeV]; measured E_γ , I_γ , $E\beta$, $I\beta$, E_n , I_n , βn -, $\beta\gamma$ -, $\beta\gamma n$ -coin, half-lives and. delayed-neutron emission probabilities. $^{20,21}\text{O}$; deduced levels, J , π , branching ratios, logft values and $B(\text{GT})$. Comparison with shell model calculations. $^{20,21}\text{F}$, $^{20,21}\text{O}(\beta^-)$; measured E_γ . JOUR PRVCA 80 054315 |
| | 2010AC01 | RADIOACTIVITY $^{21}\text{Na}(\beta^+)$ [from $^1\text{H}(^{21}\text{Ne}, n)$, $E=30$ Mev / nucleon]; measured TOF, E_γ , I_γ ; deduced Gamow-Teller branching ratios. JOUR JPGPE 37 045103 |
| ^{21}Na | 2009ACZZ | RADIOACTIVITY $^{21}\text{Na}(\beta^+)$; measured E_γ , I_γ ; deduced $\sigma(\text{GT}) / \sigma$. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P362,Achouri |
| | 2009MA68 | NUCLEAR REACTIONS $^{24}\text{Mg}(p, t)$, $E=98.7$ MeV; measured $E(t)$, $I(t)$, $\sigma(\theta)$ using Grand-Raiden spectrometer at RCNP facility. ^{22}Mg ; deduced levels, J , π , S_α , proton resonances. DWBA and R-matrix analyses. Comparison of level systematics with mirror nucleus ^{22}Ne . $^{18}\text{Ne}(\alpha, p)^{21}\text{Na}$; deduced stellar reaction rates. JOUR PRVCA 80 055804 |
| | 2010AC01 | RADIOACTIVITY $^{21}\text{Na}(\beta^+)$ [from $^1\text{H}(^{21}\text{Ne}, n)$, $E=30$ Mev / nucleon]; measured TOF, E_γ , I_γ ; deduced Gamow-Teller branching ratios. JOUR JPGPE 37 045103 |

A=22

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| ^{22}C | 2010TA04 | NUCLEAR REACTIONS $^1\text{H}(^{19}\text{C}, ^{19}\text{C}')$, $(^{20}\text{C}, ^{20}\text{C}')$, $(^{22}\text{C}, ^{22}\text{C}')$, $E=40$ MeV / nucleon; measured reaction products; $^{19,20,22}\text{C}$; deduced σ , rms matter radii, neutron halo. Secondary beams from ^{40}Ar fragmentation. JOUR PRLTA 104 062701 |
| ^{22}N | 2010SU03 | RADIOACTIVITY $^{22}\text{N}(\beta^-)$, (β^-n) , (β^-2n) [from $\text{Be}(^{48}\text{Ca}, X)$, $E=140$ MeV / nucleon]; measured E_γ , I_γ , $E\beta$, $I\beta$, $E\nu$, $I\nu$, $\beta\gamma$ -coin, half-lives, branching ratios; deduced logft. $^{20,21,22}\text{O}$; deduced levels, J , π , $B(\text{GT})$ values. Comparison with shell model calculations. Discussed halo structure and shell closure. JOUR PRVCA 81 014302 |
| ^{22}O | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, X)$, $E=68.8$ MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |

KEYNUMBERS AND KEYWORDS

A=22 (continued)

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| | 2010SU03 | RADIOACTIVITY $^{22}\text{N}(\beta^-)$, (β^-n) , (β^-2n) [from $\text{Be}(^{48}\text{Ca}, X)$, $E=140$ MeV / nucleon]; measured $E\gamma$, $I\gamma$, $E\beta$, $I\beta$, $E\nu$, $I\nu$, $\beta\gamma$ -coin, half-lives, branching ratios; deduced logft. $^{20,21,22}\text{O}$; deduced levels, J , π , $B(\text{GT})$ values. Comparison with shell model calculations. Discussed halo structure and shell closure. JOUR PRVCA 81 014302 |
| ^{22}Na | 2010AC01 | RADIOACTIVITY $^{22}\text{Mg}(\text{EC})$; measured TOF, $E\gamma$, $I\gamma$; deduced Gamow-Teller branching ratios. JOUR JPGPE 37 045103 |
| ^{22}Mg | 2009MA68 | NUCLEAR REACTIONS $^{24}\text{Mg}(p, t)$, $E=98.7$ MeV; measured $E(t)$, $I(t)$, $\sigma(\theta)$ using Grand-Raiden spectrometer at RCNP facility. ^{22}Mg ; deduced levels, J , π , S_α , proton resonances. DWBA and R-matrix analyses. Comparison of level systematics with mirror nucleus ^{22}Ne . $^{18}\text{Ne}(\alpha, p)^{21}\text{Na}$; deduced stellar reaction rates. JOUR PRVCA 80 055804 |
| | 2010AC01 | RADIOACTIVITY $^{22}\text{Mg}(\text{EC})$; measured TOF, $E\gamma$, $I\gamma$; deduced Gamow-Teller branching ratios. JOUR JPGPE 37 045103 |

A=23

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|------------------|----------|--|
| ^{23}O | 2009LI51 | NUCLEAR REACTIONS $^9\text{Be}(^{26}\text{Mg}, X)$, $E=68.8$ MeV; measured isotopic yields. ^6He , $^{7,8,9}\text{Li}$, $^{9,10,11,12}\text{Be}$, $^{12,13,14,15,17}\text{B}$, $^{15,16,17,18,19}\text{C}$, $^{19,20,21}\text{N}$, $^{22,23}\text{O}$; measured yields. JOUR PRVCA 80 054315 |
| ^{23}Ne | 2009BEZQ | NUCLEAR REACTIONS $^{22}\text{Ne}(n, \gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$; deduced σ , $\sigma(E\gamma)$. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P367,Belgys |

A=24

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| ^{24}Na | 2008MIZT | NUCLEAR REACTIONS ^{23}Na , $^{27}\text{Al}(n, \gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$; deduced γ emission probability. New method suggested, shown to be consistent. CONF Nice (Nucl Data for Sci and Technol) Proc,P451 |
| | 2010KR02 | NUCLEAR REACTIONS ^{27}Al , ^{197}Au , ^{59}Co , In , $^{181}\text{Ta}(n, \gamma)$, (n, α) , (n, xn) , $E=1$ GeV; $^{191,192,193,194,196,198}\text{Au}$, ^{24}Na ; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced yields, σ . JOUR NIMAE 615 70 |
| | 2010LU01 | NUCLEAR REACTIONS $^{152,154,160}\text{Gd}$, $^{93}\text{Nb}(n, 2n)$, $^{156,157,158}\text{Gd}(n, p)$, ^{27}Al , $^{158}\text{Gd}(n, \alpha)$, $E=13.5-14.8$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with available experimental data. JOUR RAACA 98 127 |
| ^{24}Mg | 2009Y009 | NUCLEAR REACTIONS $^{24}\text{Mg}(\alpha, \alpha')$, $E=240$ MeV; measured $E\alpha$, $I\alpha$, $\sigma(\theta)$; deduced strength distributions, widths, EWSR and other parameters for isoscalar E0-GMR, E1-GDR, E2-GQR and E3-GOR giant excitations in 9-60 MeV region, DWBA analysis. JOUR PRVCA 80 064318 |

KEYNUMBERS AND KEYWORDS

A=25

- ²⁵Ne 2009RAZW NUCLEAR REACTIONS ²H(²⁰O, p), (²⁰O, t), (²⁶Ne, p), (²⁶Ne, t), E=10 MeV / nucleon; measured heavy fragments, Ep, Ip, Et, It, E γ , I γ ; deduced excitation energy spectra, level scheme, energies, angular momenta, spectroscopic factors, shell closure data. REPT
IPNO-T-09-07,Ramus
- ²⁵Mg 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643

A=26

- ²⁶Mg 2009L006 NUCLEAR REACTIONS ²⁶Mg(polarized γ , γ'), E=10.8, 11.0, 11.2, 11.4 MeV; measured E γ , I γ , and $\gamma\gamma(\theta)$ at TUNL HI γ S facility. ²⁶Mg; deduced levels, J, π , and branching ratios. Comparison with Monte Carlo simulations. Implications for the reaction rates for ²²Ne(α , γ)²⁶Mg of astrophysical interest. JOUR PRVCA 80 055803
- 2010BE01 NUCLEAR REACTIONS ¹⁹⁷Au(⁶⁸Ni, ⁶⁸Ni'), E=600 MeV / nucleon; ¹⁹⁷Au(⁵⁴Cr, ⁵⁴Cr'), E=100 MeV / nucleon; ¹⁹⁷Au(¹³²Xe, ¹³²Xe'), E=100 MeV / nucleon; ²⁷Al(p, 2p), E> 100 MeV; Ge, ²⁷Al(n, n'), E not given; Be(³⁷Ca, X)³⁶K, E=200 MeV / nucleon; measured reaction fragments, E γ , I γ ; deduced energy levels, B(E2) values, lifetimes, $\sigma(\theta)$. JOUR APOBB 41 505
- 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643

A=27

- ²⁷Ne 2009RAZW NUCLEAR REACTIONS ²H(²⁰O, p), (²⁰O, t), (²⁶Ne, p), (²⁶Ne, t), E=10 MeV / nucleon; measured heavy fragments, Ep, Ip, Et, It, E γ , I γ ; deduced excitation energy spectra, level scheme, energies, angular momenta, spectroscopic factors, shell closure data. REPT
IPNO-T-09-07,Ramus
- ²⁷Mg 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643
- ²⁷Al 2009MA70 NUCLEAR REACTIONS ¹³C(α , γ), (α , n), E=2.000, 2.270 MeV; measured E γ , I γ , $\gamma(\theta)$, En, σ , and $\sigma(\theta)$; deduced astrophysical S factors. Comparison with previous experimental data. ²⁷Al, ¹²⁷I, ^{206,207,208}Pb(n, n'), E=3.5-4.4 MeV; ¹²⁷I(n, γ), E=10.1-11.3 MeV; measured E γ . JOUR PRVCA 80 065802

KEYNUMBERS AND KEYWORDS

A=27 (continued)

- 2010BE01 NUCLEAR REACTIONS $^{197}\text{Au}(^{68}\text{Ni}, ^{68}\text{Ni}')$, E=600 MeV / nucleon; $^{197}\text{Au}(^{54}\text{Cr}, ^{54}\text{Cr}')$, E=100 MeV / nucleon; $^{197}\text{Au}(^{132}\text{Xe}, ^{132}\text{Xe}')$, E=100 MeV / nucleon; $^{27}\text{Al}(p, 2p)$, E> 100 MeV; Ge, $^{27}\text{Al}(n, n')$, E not given; Be($^{37}\text{Ca}, X$) ^{36}K , E=200 MeV / nucleon; measured reaction fragments, E_γ , I_γ ; deduced energy levels, B(E2) values, lifetimes, $\sigma(\theta)$. JOUR APOBB 41 505
- ^{27}Si 2009L005 NUCLEAR REACTIONS $^{12}\text{C}(^{16}\text{O}, n)$, E=26 MeV; measured E_γ , $\gamma\gamma$ -coin, $\gamma(\theta)$, and half-lives by DSA using Gammasphere array. ^{27}Si ; deduced levels, J, π , and proton resonances. $^{26m}\text{Al}(p, \gamma)^{27}\text{Si}$; deduced stellar reaction rates. JOUR PRVCA 80 055802

A=28

- ^{28}Al 2008MIZT NUCLEAR REACTIONS $^{23}\text{Na}, ^{27}\text{Al}(n, \gamma)$, E=thermal; measured E_γ , I_γ ; deduced γ emission probability. New method suggested, shown to be consistent. CONF Nice (Nucl Data for Sci and Technol) Proc,P451
- 2010KR02 NUCLEAR REACTIONS $^{27}\text{Al}, ^{197}\text{Au}, ^{59}\text{Co}, \text{In}, ^{181}\text{Ta}(n, \gamma)$, (n, α), (n, xn), E=1 GeV; $^{191,192,193,194,196,198}\text{Au}, ^{24}\text{Na}$; measured E_α , I_α , E_γ , I_γ ; deduced yields, σ . JOUR NIMAE 615 70
- ^{28}Si 2009LEZU NUCLEAR REACTIONS $^{12}\text{C}(^{16}\text{O}, \gamma)$, E(cm)=8.5, 8.8, 9 MeV; measured E_γ , I_γ , particle- γ -coin.; deduced feeding of states located around $E^*=11$ MeV. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P593,Lebhertz

A=29

No references found

A=30

- ^{30}S 2009OBZY NUCLEAR REACTIONS $^{32}\text{S}(p, t)$, $E^*=4-13$ MeV; $^{34}\text{Ar}(p, t)$, $E^*=4-12$ MeV; $^{40}\text{Ca}(p, t)$, $E^*=4-13$ MeV; measured E(particle), I(particle); deduced energy levels. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P288,O'Brien

A=31

- ^{31}Ne 2009NA39 NUCLEAR REACTIONS Pb, C($^{31}\text{Ne}, ^{30}\text{Ne}$), ($^{19}\text{C}, ^{18}\text{C}$) E=230-243 MeV / nucleon; $^{31}\text{Ne}, ^{19}\text{C}$; measured reaction fragments; deduced inclusive one-neutron removal σ , soft E1 excitations for ^{31}Ne , B(E1). Secondary beams from ^{48}Ca fragmentation. JOUR PRLTA 103 262501
- ^{31}P 2009KA37 NUCLEAR REACTIONS $^{30}\text{Si}(p, \gamma)$, E=1.4-2.7 MeV; measured E_γ , I_γ ; deduced excitation function, resonance strength, magnetic dipole resonance strengths for the ground and first excited states. JOUR BRSPE 73 1506

KEYNUMBERS AND KEYWORDS

A=31 (continued)

2009KW02 ATOMIC MASSES $^{32,33}\text{Si}$, ^{32}S , $^{31,34}\text{P}$; measured masses using LEBIT Penning-trap spectrometer; deduced mass excesses. Discussed validity of quadratic form of isobaric multiplet mass equation (IMME). JOUR PRVCA 80 051302

A=32

^{32}Si 2009KW02 ATOMIC MASSES $^{32,33}\text{Si}$, ^{32}S , $^{31,34}\text{P}$; measured masses using LEBIT Penning-trap spectrometer; deduced mass excesses. Discussed validity of quadratic form of isobaric multiplet mass equation (IMME). JOUR PRVCA 80 051302

^{32}S 2009KW02 ATOMIC MASSES $^{32,33}\text{Si}$, ^{32}S , $^{31,34}\text{P}$; measured masses using LEBIT Penning-trap spectrometer; deduced mass excesses. Discussed validity of quadratic form of isobaric multiplet mass equation (IMME). JOUR PRVCA 80 051302

2010AD03 RADIOACTIVITY $^{33}\text{Ar}(\beta^+)$, (EC), ($\beta^+\text{p}$), (ECp); measured $E\gamma$, E_p , I_p , and $\beta\text{p-}$, $\gamma\text{p-coin}$. ^{33}Cl ; deduced levels, J, π , IAS, logft, and B(GT). ^{32}S ; deduced levels, J, π , and proton feedings. Comparison with USD shell-model calculations. Barrier penetration calculations for spin assignments. JOUR PRVCA 81 024311

^{32}Ar 2009OBZY NUCLEAR REACTIONS $^{32}\text{S}(\text{p}, \text{t})$, $E^*=4-13$ MeV; $^{34}\text{Ar}(\text{p}, \text{t})$, $E^*=4-12$ MeV; $^{40}\text{Ca}(\text{p}, \text{t})$, $E^*=4-13$ MeV; measured $E(\text{particle})$, $I(\text{particle})$; deduced energy levels. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P288,O'Brien

A=33

^{33}Si 2009KW02 ATOMIC MASSES $^{32,33}\text{Si}$, ^{32}S , $^{31,34}\text{P}$; measured masses using LEBIT Penning-trap spectrometer; deduced mass excesses. Discussed validity of quadratic form of isobaric multiplet mass equation (IMME). JOUR PRVCA 80 051302

^{33}Cl 2010AD03 RADIOACTIVITY $^{33}\text{Ar}(\beta^+)$, (EC), ($\beta^+\text{p}$), (ECp); measured $E\gamma$, E_p , I_p , and $\beta\text{p-}$, $\gamma\text{p-coin}$. ^{33}Cl ; deduced levels, J, π , IAS, logft, and B(GT). ^{32}S ; deduced levels, J, π , and proton feedings. Comparison with USD shell-model calculations. Barrier penetration calculations for spin assignments. JOUR PRVCA 81 024311

^{33}Ar 2010AD03 RADIOACTIVITY $^{33}\text{Ar}(\beta^+)$, (EC), ($\beta^+\text{p}$), (ECp); measured $E\gamma$, E_p , I_p , and $\beta\text{p-}$, $\gamma\text{p-coin}$. ^{33}Cl ; deduced levels, J, π , IAS, logft, and B(GT). ^{32}S ; deduced levels, J, π , and proton feedings. Comparison with USD shell-model calculations. Barrier penetration calculations for spin assignments. JOUR PRVCA 81 024311

2010LE03 NUCLEAR REACTIONS $^1\text{H}(^{34}\text{Ar}, \text{d})$, ($^{36}\text{Ar}, \text{d}$), ($^{46}\text{Ar}, \text{d}$), $E=33$ MeV / nucleon; measured $E\delta$, $I\delta$; $^{34,36,46}\text{Ar}$; deduced neutron ground state spectroscopic factors. Comparison with shell model calculations. JOUR PRLTA 104 112701

A=34

- ³⁴P 2009KW02 ATOMIC MASSES ^{32,33}Si, ³²S, ^{31,34}P; measured masses using LEBIT Penning-trap spectrometer; deduced mass excesses. Discussed validity of quadratic form of isobaric multiplet mass equation (IMME). JOUR PRVCA 80 051302
- ³⁴S 2009ER07 RADIOACTIVITY ³⁴Cl, ³⁸K(EC); measured cyclotron frequency ratios; deduced Q-values with high precision. Online Penning trap. JOUR PRLTA 103 252501
- 2009KIZW NUCLEAR REACTIONS ³³S(n, γ), E=low; measured E γ , I γ ; deduced ³⁴S nuclear levels using TELLA-2 analysis. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P575,Kin
- ³⁴Cl 2009ER07 RADIOACTIVITY ³⁴Cl, ³⁸K(EC); measured cyclotron frequency ratios; deduced Q-values with high precision. Online Penning trap. JOUR PRLTA 103 252501
- 20100D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using PRISMA magnetic spectrometer and the CLARA γ -ray detector array. ³⁸Cl; deduced levels, J, π , and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318
- ³⁴Ar 2010LE03 NUCLEAR REACTIONS ¹H(³⁴Ar, d), (³⁶Ar, d), (⁴⁶Ar, d), E=33 MeV / nucleon; measured E δ , I δ ; ^{34,36,46}Ar; deduced neutron ground state spectroscopic factors. Comparison with shell model calculations. JOUR PRLTA 104 112701

A=35

- ³⁵Ar 2010LE03 NUCLEAR REACTIONS ¹H(³⁴Ar, d), (³⁶Ar, d), (⁴⁶Ar, d), E=33 MeV / nucleon; measured E δ , I δ ; ^{34,36,46}Ar; deduced neutron ground state spectroscopic factors. Comparison with shell model calculations. JOUR PRLTA 104 112701

A=36

- ³⁶Cl 20100D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using PRISMA magnetic spectrometer and the CLARA γ -ray detector array. ³⁸Cl; deduced levels, J, π , and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318
- ³⁶Ar 2010LE03 NUCLEAR REACTIONS ¹H(³⁴Ar, d), (³⁶Ar, d), (⁴⁶Ar, d), E=33 MeV / nucleon; measured E δ , I δ ; ^{34,36,46}Ar; deduced neutron ground state spectroscopic factors. Comparison with shell model calculations. JOUR PRLTA 104 112701

KEYNUMBERS AND KEYWORDS

A=36 (continued)

³⁶K 2010BE01 NUCLEAR REACTIONS ¹⁹⁷Au(⁶⁸Ni, ⁶⁸Ni'), E=600 MeV / nucleon; ¹⁹⁷Au(⁵⁴Cr, ⁵⁴Cr'), E=100 MeV / nucleon; ¹⁹⁷Au(¹³²Xe, ¹³²Xe'), E=100 MeV / nucleon; ²⁷Al(p, 2p), E > 100 MeV; Ge, ²⁷Al(n, n'), E not given; Be(³⁷Ca, X)³⁶K, E=200 MeV / nucleon; measured reaction fragments, E_γ, I_γ; deduced energy levels, B(E2) values, lifetimes, σ(θ). JOUR APOBB 41 505

A=37

³⁷Cl 2010D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E_γ, I_γ, γγ-coin using PRISMA magnetic spectrometer and the CLARA γ-ray detector array. ³⁸Cl; deduced levels, J, π, and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318

A=38

³⁸Cl 2010D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E_γ, I_γ, γγ-coin using PRISMA magnetic spectrometer and the CLARA γ-ray detector array. ³⁸Cl; deduced levels, J, π, and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318

³⁸Ar 2009ER07 RADIOACTIVITY ³⁴Cl, ³⁸K(EC); measured cyclotron frequency ratios; deduced Q-values with high precision. Online Penning trap. JOUR PRLTA 103 252501

³⁸K 2009ER07 RADIOACTIVITY ³⁴Cl, ³⁸K(EC); measured cyclotron frequency ratios; deduced Q-values with high precision. Online Penning trap. JOUR PRLTA 103 252501

³⁸Ca 2009BZY NUCLEAR REACTIONS ³²S(p, t), E*=4-13 MeV; ³⁴Ar(p, t), E*=4-12 MeV; ⁴⁰Ca(p, t), E*=4-13 MeV; measured E(particle), I(particle); deduced energy levels. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P288,O'Brien

A=39

³⁹Cl 2010D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E_γ, I_γ, γγ-coin using PRISMA magnetic spectrometer and the CLARA γ-ray detector array. ³⁸Cl; deduced levels, J, π, and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318

KEYNUMBERS AND KEYWORDS

A=40

- ⁴⁰S 2009RI12 ATOMIC MASSES ^{40,41,42,43,44}S; measured precise mass excesses using LEBIT Penning trap mass spectrometer. Comparison with other recent mass measurements. Systematics of S(2n) values for N=24-30, Z=15-18 nuclides. JOUR PRVCA 80 064321
- ⁴⁰Cl 2010D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using PRISMA magnetic spectrometer and the CLARA γ -ray detector array. ³⁸Cl; deduced levels, J, π , and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318
- ⁴⁰K 2008GUZQ NUCLEAR REACTIONS ^{39,41}K(n, γ), E=10-64 keV; ⁵⁵Mn(n, γ), E=20-40 keV; measured E γ , I γ , En, In using TOF; deduced σ ; calculated σ using SAMMY code with ENDF / B-VI and JENDL-3.2 resonance parameters; evaluated σ , transmission data. ORELA facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P403
- 2009BH09 NUCLEAR REACTIONS ⁴⁰Ar(p, n), E=120, 160 MeV; measured E(n), I(n) by time-of-flight method using peak-shape fitting parameters from ¹³C(p, n)¹³N, E=120, 160 MeV reaction. ⁴⁰K; deduced levels and B(GT). Comparison of B(GT) strengths from ⁴⁰Ti(β^+). ⁴⁰Ar(ν , e)⁴⁰K; deduced capture cross section. JOUR PRVCA 80 055501
- ⁴⁰Ca 2009FU17 NUCLEAR REACTIONS ¹²C, ¹⁶O, ^{40,42,48}Ca(⁷Li, t α)¹²C / ¹⁶O / ⁴⁰Ca / ⁴²Ca / ⁴⁸Ca / ⁴⁴Ti / ⁴⁶Ti / ⁵²Ti, E=26.0 MeV; measured particle-spectra, t α -coin, and t α (θ); deduced relative ratios of reaction cross sections. ^{44,46,52}Ti; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613

A=41

- ⁴¹S 2009RI12 ATOMIC MASSES ^{40,41,42,43,44}S; measured precise mass excesses using LEBIT Penning trap mass spectrometer. Comparison with other recent mass measurements. Systematics of S(2n) values for N=24-30, Z=15-18 nuclides. JOUR PRVCA 80 064321
- ⁴¹Cl 2010D01 NUCLEAR REACTIONS ²⁰⁸Pb(³⁶S, X)³⁶Cl / ³⁷Cl / ³⁸Cl / ³⁹Cl / ⁴⁰Cl / ⁴¹Cl / ⁴²Cl, E=215 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using PRISMA magnetic spectrometer and the CLARA γ -ray detector array. ³⁸Cl; deduced levels, J, π , and configurations. ^{34,36,38,40}Cl; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318

A=42

- ⁴²S 2009RI12 ATOMIC MASSES ^{40,41,42,43,44}S; measured precise mass excesses using LEBIT Penning trap mass spectrometer. Comparison with other recent mass measurements. Systematics of S(2n) values for N=24-30, Z=15-18 nuclides. JOUR PRVCA 80 064321

KEYNUMBERS AND KEYWORDS

A=42 (continued)

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| ^{42}Cl | 20100D01 | NUCLEAR REACTIONS $^{208}\text{Pb}(^{36}\text{S}, \text{X})^{36}\text{Cl} / ^{37}\text{Cl} / ^{38}\text{Cl} / ^{39}\text{Cl} / ^{40}\text{Cl} / ^{41}\text{Cl} / ^{42}\text{Cl}$, E=215 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using PRISMA magnetic spectrometer and the CLARA γ -ray detector array. ^{38}Cl ; deduced levels, J, π , and configurations. $^{34,36,38,40}\text{Cl}$; systematics of 5- and 7+ states. Comparison with shell model calculations. JOUR PRVCA 81 024318 |
| ^{42}K | 2008GUZQ | NUCLEAR REACTIONS $^{39,41}\text{K}(\text{n}, \gamma)$, E=10-64 keV; $^{55}\text{Mn}(\text{n}, \gamma)$, E=20-40 keV; measured $E\gamma$, $I\gamma$, En, In using TOF; deduced σ ; calculated σ using SAMMY code with ENDF / B-VI and JENDL-3.2 resonance parameters; evaluated σ , transmission data. ORELA facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P403 |
| ^{42}Ca | 2009FU17 | NUCLEAR REACTIONS ^{12}C , ^{16}O , $^{40,42,48}\text{Ca}(^7\text{Li}, \text{t}\alpha)^{12}\text{C} / ^{16}\text{O} / ^{40}\text{Ca} / ^{42}\text{Ca} / ^{48}\text{Ca} / ^{44}\text{Ti} / ^{46}\text{Ti} / ^{52}\text{Ti}$, E=26.0 MeV; measured particle-spectra, $\text{t}\alpha$ -coin, and $\text{t}\alpha(\theta)$; deduced relative ratios of reaction cross sections. $^{44,46,52}\text{Ti}$; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613 |

A=43

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|-----------------|----------|--|
| ^{43}S | 2009RI12 | ATOMIC MASSES $^{40,41,42,43,44}\text{S}$; measured precise mass excesses using LEBIT Penning trap mass spectrometer. Comparison with other recent mass measurements. Systematics of S(2n) values for N=24-30, Z=15-18 nuclides. JOUR PRVCA 80 064321 |
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A=44

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|------------------|----------|--|
| ^{44}S | 2009RI12 | ATOMIC MASSES $^{40,41,42,43,44}\text{S}$; measured precise mass excesses using LEBIT Penning trap mass spectrometer. Comparison with other recent mass measurements. Systematics of S(2n) values for N=24-30, Z=15-18 nuclides. JOUR PRVCA 80 064321 |
| ^{44}Ti | 2009FU17 | NUCLEAR REACTIONS ^{12}C , ^{16}O , $^{40,42,48}\text{Ca}(^7\text{Li}, \text{t}\alpha)^{12}\text{C} / ^{16}\text{O} / ^{40}\text{Ca} / ^{42}\text{Ca} / ^{48}\text{Ca} / ^{44}\text{Ti} / ^{46}\text{Ti} / ^{52}\text{Ti}$, E=26.0 MeV; measured particle-spectra, $\text{t}\alpha$ -coin, and $\text{t}\alpha(\theta)$; deduced relative ratios of reaction cross sections. $^{44,46,52}\text{Ti}$; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613 |

A=45

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|------------------|----------|--|
| ^{45}Ar | 2010LE03 | NUCLEAR REACTIONS $^1\text{H}(^{34}\text{Ar}, \text{d})$, $(^{36}\text{Ar}, \text{d})$, $(^{46}\text{Ar}, \text{d})$, E=33 MeV / nucleon; measured $E\delta$, $I\delta$; $^{34,36,46}\text{Ar}$; deduced neutron ground state spectroscopic factors. Comparison with shell model calculations. JOUR PRLTA 104 112701 |
|------------------|----------|--|

KEYNUMBERS AND KEYWORDS

A=46

- ⁴⁶Ar 2010LE03 NUCLEAR REACTIONS ¹H(³⁴Ar, d), (³⁶Ar, d), (⁴⁶Ar, d), E=33 MeV / nucleon; measured E δ , I δ ; ^{34,36,46}Ar; deduced neutron ground state spectroscopic factors. Comparison with shell model calculations. JOUR PRLTA 104 112701
- ⁴⁶Sc 2010DI02 NUCLEAR REACTIONS ¹⁹⁷Au, ⁹⁴Zr, ⁶⁴Zn, ⁴⁵Sc, ¹³⁹La(n, γ), E=thermal; measured E γ , I γ ; deduced shape of neutron flux, covariances. JOUR ARISE 68 592
- ⁴⁶Ti 2009FU17 NUCLEAR REACTIONS ¹²C, ¹⁶O, ^{40,42,48}Ca(⁷Li, t α)¹²C / ¹⁶O / ⁴⁰Ca / ⁴²Ca / ⁴⁸Ca / ⁴⁴Ti / ⁴⁶Ti / ⁵²Ti, E=26.0 MeV; measured particle-spectra, t α -coin, and t α (θ); deduced relative ratios of reaction cross sections. ^{44,46,52}Ti; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613

A=47

No references found

A=48

- ⁴⁸Ca 2009FU17 NUCLEAR REACTIONS ¹²C, ¹⁶O, ^{40,42,48}Ca(⁷Li, t α)¹²C / ¹⁶O / ⁴⁰Ca / ⁴²Ca / ⁴⁸Ca / ⁴⁴Ti / ⁴⁶Ti / ⁵²Ti, E=26.0 MeV; measured particle-spectra, t α -coin, and t α (θ); deduced relative ratios of reaction cross sections. ^{44,46,52}Ti; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613
- 2010SI06 RADIOACTIVITY ¹⁰⁰Mo, ⁸²Se, ¹¹⁶Cd, ¹⁵⁰Nd, ⁹⁶Zr, ⁴⁸Ca, ¹³⁰Te(2 β^-); measured Ee, Ie; deduced T_{1/2}. JOUR PPNPD 64 270
- ⁴⁸Ti 2010SI06 RADIOACTIVITY ¹⁰⁰Mo, ⁸²Se, ¹¹⁶Cd, ¹⁵⁰Nd, ⁹⁶Zr, ⁴⁸Ca, ¹³⁰Te(2 β^-); measured Ee, Ie; deduced T_{1/2}. JOUR PPNPD 64 270
- ⁴⁸V 2008SEZT NUCLEAR REACTIONS ⁵⁰Cr(n, x)⁴⁸V, ⁵⁸Ni(n, p α), ⁵⁸Ni(n, x)⁵⁶Co, ⁶³Cu(n, p α), ¹⁸¹Ta(n, α), ¹⁸¹Ta(n, p), ¹⁸¹Ta(n, x)¹⁸⁰Hf, ¹⁸¹Ta(n, 2n), ^{182,183,184,185}W(n, p), ¹⁸³W(n, x)¹⁸²Ta, ¹⁸⁴W(n, x)¹⁸³Ta, ¹⁸⁶W(n, x)¹⁸⁵Ta, ¹⁸⁶W(n, 2n), ^{184,186}W(n, α), E=13.8-20.5 MeV; measured E γ , I γ ; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
- 2010TA03 NUCLEAR REACTIONS ¹⁶⁷Er, ¹⁶⁸Er(p, n), ¹⁶⁷Er(p, n), ¹⁶⁶Er(p, 2n), Ti(p, X)⁴⁸V, E<15 MeV; measured E γ , I γ ; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II, TALYS nuclear reaction model codes. JOUR ARISE 68 250

A=49

No references found

KEYNUMBERS AND KEYWORDS

A=50

No references found

A=51

- ⁵¹V 2010M001 RADIOACTIVITY ⁵¹Cr(EC); measured E γ , I γ , E α , I α , $\alpha\gamma$ -coin.; deduced γ -ray emission probabilities per decay. Comparison with Monte-Carlo code. JOUR ARISE 68 596
- ⁵¹Cr 2010M001 RADIOACTIVITY ⁵¹Cr(EC); measured E γ , I γ , E α , I α , $\alpha\gamma$ -coin.; deduced γ -ray emission probabilities per decay. Comparison with Monte-Carlo code. JOUR ARISE 68 596

A=52

- ⁵²Ti 2009FU17 NUCLEAR REACTIONS ¹²C, ¹⁶O, ^{40,42,48}Ca(⁷Li, t α)¹²C / ¹⁶O / ⁴⁰Ca / ⁴²Ca / ⁴⁸Ca / ⁴⁴Ti / ⁴⁶Ti / ⁵²Ti, E=26.0 MeV; measured particle-spectra, t α -coin, and t α (θ); deduced relative ratios of reaction cross sections. ^{44,46,52}Ti; deduced levels, J, π , α -cluster states. Comparison with other experimental data. JOUR PRVCA 80 064613
- ⁵²Mn 2010NG01 NUCLEAR REACTIONS Fe(γ , npX)⁵²Mn, E=0.05-2.5 GeV; measured E γ , I γ ; deduced isomeric yield ratios, decay scheme. JOUR JRNC D 283 683

A=53

- ⁵³Sc 2010MC01 NUCLEAR REACTIONS ⁹Be(⁵⁴Ti, ⁵³Sc), E=72 MeV / nucleon; measured E γ , I γ , (particle) γ -coin using SeGA array, σ , and parallel momentum distributions in one-proton knockout reaction. ⁵³Sc; deduced levels, J, π and configurations. Comparison with shell model calculations. JOUR PRVCA 81 024301

A=54

- ⁵⁴Mn 2008SEZT NUCLEAR REACTIONS ⁵⁰Cr(n, x)⁴⁸V, ⁵⁸Ni(n, p α), ⁵⁸Ni(n, x)⁵⁶Co, ⁶³Cu(n, p α), ¹⁸¹Ta(n, α), ¹⁸¹Ta(n, p), ¹⁸¹Ta(n, x)¹⁸⁰Hf, ¹⁸¹Ta(n, 2n), ^{182,183,184,185}W(n, p), ¹⁸³W(n, x)¹⁸²Ta, ¹⁸⁴W(n, x)¹⁸³Ta, ¹⁸⁶W(n, x)¹⁸⁵Ta, ¹⁸⁶W(n, 2n), ^{184,186}W(n, α), E=13.8-20.5 MeV; measured E γ , I γ ; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559

A=55

No references found

KEYNUMBERS AND KEYWORDS

A=56

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|------------------|----------|--|
| ^{56}Mn | 2008GUZQ | NUCLEAR REACTIONS $^{39,41}\text{K}(n, \gamma)$, $E=10-64$ keV; $^{55}\text{Mn}(n, \gamma)$, $E=20-40$ keV; measured $E\gamma$, $I\gamma$, E_n , I_n using TOF; deduced σ ; calculated σ using SAMMY code with ENDF / B-VI and JENDL-3.2 resonance parameters; evaluated σ , transmission data. ORELA facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P403 |
| | 2010KR02 | NUCLEAR REACTIONS ^{27}Al , ^{197}Au , ^{59}Co , I_n , $^{181}\text{Ta}(n, \gamma)$, (n, α) , (n, xn) , $E=1$ GeV; $^{191,192,193,194,196,198}\text{Au}$, ^{24}Na ; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced yields, σ . JOUR NIMAE 615 70 |
| ^{56}Co | 2008SEZT | NUCLEAR REACTIONS $^{50}\text{Cr}(n, x)^{48}\text{V}$, $^{58}\text{Ni}(n, p\alpha)$, $^{58}\text{Ni}(n, x)^{56}\text{Co}$, $^{63}\text{Cu}(n, p\alpha)$, $^{181}\text{Ta}(n, \alpha)$, $^{181}\text{Ta}(n, p)$, $^{181}\text{Ta}(n, x)^{180}\text{Hf}$, $^{181}\text{Ta}(n, 2n)$, $^{182,183,184,185}\text{W}(n, p)$, $^{183}\text{W}(n, x)^{182}\text{Ta}$, $^{184}\text{W}(n, x)^{183}\text{Ta}$, $^{186}\text{W}(n, x)^{185}\text{Ta}$, $^{186}\text{W}(n, 2n)$, $^{184,186}\text{W}(n, \alpha)$, $E=13.8-20.5$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559 |

A=57

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|------------------|----------|---|
| ^{57}Mn | 2009STZZ | NUCLEAR REACTIONS $^{13,14}\text{C}(^{48}\text{Ca}, xnp)^{57}\text{Mn}$ / ^{58}Mn / ^{59}Mn / ^{60}Mn , $E=130$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (fragment) γ -coin, $\gamma(\theta)$, $\gamma\gamma(\theta)$ (DCO) using Gammasphere array and Fragment Mass Analyzer. $^{57,58,59,60}\text{Mn}$; deduced levels, J , π , and Comparisons with shell-model calculations using PREPRINT Steppenbeck,12/22/2009 |
| | 2010ST01 | NUCLEAR REACTIONS $^{13,14}\text{C}(^{48}\text{Ca}, X)$, $E=130$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using the Gammasphere array, $\gamma(\theta)$, DCO ratios. $^{57,58,59,69}\text{Mn}$; deduced levels, J , π , multipolarities. Comparison with shell-model calculations using the GXPF1A effective interaction. JOUR PRVCA 81 014305 |
| ^{57}Fe | 2010WA03 | NUCLEAR REACTIONS ^{197}Au , $^{56,57}\text{Fe}(n, \gamma)$, $E=10-90$ keV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ENDF / B-VII.0 and JENDL-3.3 data. JOUR NIMBE 268 440 |
| ^{57}Cu | 2009COZX | NUCLEAR MOMENTS $^{57,58,59,63,65}\text{Cu}$; measured hyperfine structure using in-gas-cell laser spectroscopy technique at LISOL facility; deduced magnetic moments, hyperfine parameters and shell-model calculations using GXPF1 interaction. PREPRINT Cocolios,12/17/2009 |
| | 2010C001 | NUCLEAR REACTIONS $\text{Ni}(p, xn)^{57}\text{Cu}$ / ^{58}Cu / ^{59}Cu , $E=30$ MeV; $\text{Ni}(^3\text{He}, pn)^{59}\text{Cu}$, $E=25$ MeV; measured hyperfine spectra of $^{57,58,59,63,65}\text{Cu}$ using in-gas-cell laser spectroscopy at LISOL facility. JOUR PRVCA 81 014314 |
| | 2010C001 | NUCLEAR MOMENTS $^{57,58,59,63,65}\text{Cu}$; measured hyperfine spectra using in-gas-cell resonant ionization laser spectroscopy; deduced g-factors, isotope shifts, magnetic dipole moments, and configuration. Comparison with shell-model calculations using GXPF1 interaction. JOUR PRVCA 81 014314 |

KEYNUMBERS AND KEYWORDS

A=58

⁵⁸ Mn	2009STZZ	NUCLEAR REACTIONS ^{13,14} C(⁴⁸ Ca, xnp) ⁵⁷ Mn / ⁵⁸ Mn / ⁵⁹ Mn / ⁶⁰ Mn, E=130 MeV; measured E γ , I γ , $\gamma\gamma$ -, (fragment) γ -coin, $\gamma(\theta)$, $\gamma\gamma(\theta)$ (DCO) using Gammasphere array and Fragment Mass Analyzer. ^{57,58,59,60} Mn; deduced levels, J, π , and Comparisons with shell-model calculations using PREPRINT Steppenbeck,12/22/2009
	2010ST01	NUCLEAR REACTIONS ^{13,14} C(⁴⁸ Ca, X), E=130 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using the Gammasphere array, $\gamma(\theta)$, DCO ratios. ^{57,58,59,69} Mn; deduced levels, J, π , multipolarities. Comparison with shell-model calculations using the GXPF1A effective interaction. JOUR PRVCA 81 014305
⁵⁸ Fe	2010WA03	NUCLEAR REACTIONS ¹⁹⁷ Au, ^{56,57} Fe(n, γ), E=10-90 keV; measured E γ , I γ ; deduced σ . Comparison with ENDF / B-VII.0 and JENDL-3.3 data. JOUR NIMBE 268 440
⁵⁸ Ni	2010KR01	NUCLEAR REACTIONS ⁵⁸ Ni, ⁹⁰ Zr(⁶ Li, ⁶ Li), (⁶ Li, ⁶ Li'), E=240 MeV; measured particle spectra, $\sigma(\theta)$ using multipole dipole-multipole (MDM) magnetic spectrometer. ⁵⁸ Ni, ⁹⁰ Zr; deduced levels, J, π , B(E2) for first 2+, and B(E3) for first 3- states. Comparison with deformed potential (DP) model and density-dependent double-folding (DDF) calculations using M3Y NN effective interaction and phenomenological Woods-Saxon potential. JOUR PRVCA 81 014603
⁵⁸ Cu	2009COZX	NUCLEAR MOMENTS ^{57,58,59,63,65} Cu; measured hyperfine structure using in-gas-cell laser spectroscopy technique at LISOL facility; deduced magnetic moments, hyperfine parameters and shell-model calculations using GXPF1 interaction. PREPRINT Cocolios,12/17/2009
	2010C001	NUCLEAR REACTIONS Ni(p, xn) ⁵⁷ Cu / ⁵⁸ Cu / ⁵⁹ Cu, E=30 MeV; Ni(³ He, pn) ⁵⁹ Cu, E=25 MeV; measured hyperfine spectra of ^{57,58,59,63,65} Cu using in-gas-cell laser spectroscopy at LISOL facility. JOUR PRVCA 81 014314
	2010C001	NUCLEAR MOMENTS ^{57,58,59,63,65} Cu; measured hyperfine spectra using in-gas-cell resonant ionization laser spectroscopy; deduced g-factors, isotope shifts, magnetic dipole moments, and configuration. Comparison with shell-model calculations using GXPF1 interaction. JOUR PRVCA 81 014314

A=59

⁵⁹ Mn	2009STZZ	NUCLEAR REACTIONS ^{13,14} C(⁴⁸ Ca, xnp) ⁵⁷ Mn / ⁵⁸ Mn / ⁵⁹ Mn / ⁶⁰ Mn, E=130 MeV; measured E γ , I γ , $\gamma\gamma$ -, (fragment) γ -coin, $\gamma(\theta)$, $\gamma\gamma(\theta)$ (DCO) using Gammasphere array and Fragment Mass Analyzer. ^{57,58,59,60} Mn; deduced levels, J, π , and Comparisons with shell-model calculations using PREPRINT Steppenbeck,12/22/2009
	2010ST01	NUCLEAR REACTIONS ^{13,14} C(⁴⁸ Ca, X), E=130 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using the Gammasphere array, $\gamma(\theta)$, DCO ratios. ^{57,58,59,69} Mn; deduced levels, J, π , multipolarities. Comparison with shell-model calculations using the GXPF1A effective interaction. JOUR PRVCA 81 014305

KEYNUMBERS AND KEYWORDS

A=59 (continued)

⁵⁹ Fe	2008SEZT	NUCLEAR REACTIONS ⁵⁰ Cr(n, x) ⁴⁸ V, ⁵⁸ Ni(n, pα), ⁵⁸ Ni(n, x) ⁵⁶ Co, ⁶³ Cu(n, pα), ¹⁸¹ Ta(n, α), ¹⁸¹ Ta(n, p), ¹⁸¹ Ta(n, x) ¹⁸⁰ Hf, ¹⁸¹ Ta(n, 2n), ^{182,183,184,185} W(n, p), ¹⁸³ W(n, x) ¹⁸² Ta, ¹⁸⁴ W(n, x) ¹⁸³ Ta, ¹⁸⁶ W(n, x) ¹⁸⁵ Ta, ¹⁸⁶ W(n, 2n), ^{184,186} W(n, α), E=13.8-20.5 MeV; measured Eγ, Iγ; deduced σ. Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
⁵⁹ Cu	2009COZX	NUCLEAR MOMENTS ^{57,58,59,63,65} Cu; measured hyperfine structure using in-gas-cell laser spectroscopy technique at LISOL facility; deduced magnetic moments, hyperfine parameters and shell-model calculations using GXPF1 interaction. PREPRINT Cocolios,12/17/2009
	2010C001	NUCLEAR REACTIONS Ni(p, xn) ⁵⁷ Cu / ⁵⁸ Cu / ⁵⁹ Cu, E=30 MeV; Ni(³ He, pn) ⁵⁹ Cu, E=25 MeV; measured hyperfine spectra of ^{57,58,59,63,65} Cu using in-gas-cell laser spectroscopy at LISOL facility. JOUR PRVCA 81 014314
	2010C001	NUCLEAR MOMENTS ^{57,58,59,63,65} Cu; measured hyperfine spectra using in-gas-cell resonant ionization laser spectroscopy; deduced g-factors, isotope shifts, magnetic dipole moments, and configuration. Comparison with shell-model calculations using GXPF1 interaction. JOUR PRVCA 81 014314

A=60

⁶⁰ Mn	2009STZZ	NUCLEAR REACTIONS ^{13,14} C(⁴⁸ Ca, xnp) ⁵⁷ Mn / ⁵⁸ Mn / ⁵⁹ Mn / ⁶⁰ Mn, E=130 MeV; measured Eγ, Iγ, γγ-, (fragment)γ-coin, γ(θ), γγ(θ)(DCO) using Gammasphere array and Fragment Mass Analyzer. ^{57,58,59,60} Mn; deduced levels, J, π, and Comparisons with shell-model calculations using PREPRINT Steppenbeck,12/22/2009
⁶⁰ Co	2008ZAZY	RADIOACTIVITY ⁶⁰ Co(β ⁻), ¹⁵² Eu(β ⁻), ¹⁹³ Os(β ⁻); measured Eγ, Iγ, θ(γ), γγ-coin.; deduced mixing ratio, angular correlations. CONF Nice (Nucl Data for Sci and Technol) Proc,P455
	2010KR02	NUCLEAR REACTIONS ²⁷ Al, ¹⁹⁷ Au, ⁵⁹ Co, In, ¹⁸¹ Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198} Au, ²⁴ Na; measured Eα, Iα, Eγ, Iγ; deduced yields, σ. JOUR NIMAE 615 70
	2010LE01	RADIOACTIVITY ²³⁸ Np, ⁶⁰ Co(β ⁻), ²³⁷ Np, ²³⁸ Pu(α); measured Eγ, Iγ, Eα, Iα; deduced γ-ray emission probabilities from β ⁻ -decay of ²³⁸ Np. JOUR ARISE 68 432
	2010LE01	NUCLEAR REACTIONS ²³⁷ Np, ⁵⁹ Co(n, γ), E not given; measured Eγ, Iγ; deduced σ. JOUR ARISE 68 432
⁶⁰ Ni	2008ZAZY	RADIOACTIVITY ⁶⁰ Co(β ⁻), ¹⁵² Eu(β ⁻), ¹⁹³ Os(β ⁻); measured Eγ, Iγ, θ(γ), γγ-coin.; deduced mixing ratio, angular correlations. CONF Nice (Nucl Data for Sci and Technol) Proc,P455
	2010LE01	RADIOACTIVITY ²³⁸ Np, ⁶⁰ Co(β ⁻), ²³⁷ Np, ²³⁸ Pu(α); measured Eγ, Iγ, Eα, Iα; deduced γ-ray emission probabilities from β ⁻ -decay of ²³⁸ Np. JOUR ARISE 68 432

KEYNUMBERS AND KEYWORDS

A=60 (continued)

2010V001 NUCLEAR REACTIONS $^{59}\text{Co}(p, 2\gamma)$, $E=1.85$ MeV; measured $E\gamma$; analyzed two-step γ cascades populating $2+$ state; deduced $E1$ and $M1$ γ -strength functions. Comparison with other studies. JOUR PRVCA 81 024319

A=61

^{61}Fe 2009DOZZ NUCLEAR REACTIONS $^{60}\text{Fe}(n, \gamma)$, $E\approx 25$ keV; $^{62}\text{Ni}(n, \gamma)$, $E\approx 25$ keV; $^{64}\text{Ni}(n, \gamma)$, $E\approx 52$ keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ , Γ_n / Γ_γ versus resonance energy. Compared ENDF / B-VII.0, JEFF 3.1, JENDL 3.3, BROND 2.2. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P230,Domingo-Pardo

A=62

^{62}Zn 2009ALZV NUCLEAR REACTIONS $^{61}\text{Ni}(^3\text{He}, 2n\gamma)$, $E=14$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced ^{62}Zn level scheme, $M1$ and $E2$ transition strengths; calculated E , J , π using IBM-2 within $U(5)$. HORUS-cube spectrometer, mixed-symmetry states. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P399,Albers

2009GE14 NUCLEAR REACTIONS $^{28}\text{Si}(^{36}\text{Ar}, 2p)$, $E=140$ MeV; $^{40}\text{Ca}(^{28}\text{Si}, 2p\alpha)$, $E=122$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, DCO using Gammasphere array. ^{62}Zn ; deduced levels, J , π , moment of inertia, configurations. Comparison with cranked Nilsson-Strutinsky calculations. JOUR PRVCA 80 051304

A=63

^{63}Mn 2009MAZL RADIOACTIVITY $^{63}\text{Mn}(\beta^-)$ [from $U(p, f)$, $E=1.4$ GeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{63}Fe E , J , π , isomer decay, $T_{1/2}$, $B(M1)$; $^{122}\text{In}(\beta^-)$ [from $^{238}\text{U}(p, f)$, $E=30$ MeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{122}Sn E , J , π , $T_{1/2}$, $B(E2)$, ground-state multiplet. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P502,Mach

^{63}Fe 2009MAZL RADIOACTIVITY $^{63}\text{Mn}(\beta^-)$ [from $U(p, f)$, $E=1.4$ GeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{63}Fe E , J , π , isomer decay, $T_{1/2}$, $B(M1)$; $^{122}\text{In}(\beta^-)$ [from $^{238}\text{U}(p, f)$, $E=30$ MeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{122}Sn E , J , π , $T_{1/2}$, $B(E2)$, ground-state multiplet. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P502,Mach

^{63}Ni 2009DOZZ NUCLEAR REACTIONS $^{60}\text{Fe}(n, \gamma)$, $E\approx 25$ keV; $^{62}\text{Ni}(n, \gamma)$, $E\approx 25$ keV; $^{64}\text{Ni}(n, \gamma)$, $E\approx 52$ keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ , Γ_n / Γ_γ versus resonance energy. Compared ENDF / B-VII.0, JEFF 3.1, JENDL 3.3, BROND 2.2. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P230,Domingo-Pardo

KEYNUMBERS AND KEYWORDS

A=63 (continued)

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|------------------|----------|---|
| | 20090SZZ | NUCLEAR REACTIONS $^{62}\text{Ni}(n, \gamma)$, E=low; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced level properties: E, decay scheme. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P386,Oshima |
| ^{63}Cu | 2009C0ZX | NUCLEAR MOMENTS $^{57,58,59,63,65}\text{Cu}$; measured hyperfine structure using in-gas-cell laser spectroscopy technique at LISOL facility; deduced magnetic moments, hyperfine parameters and shell-model calculations using GXPF1 interaction. PREPRINT Cocolios,12/17/2009 |
| | 2010C001 | NUCLEAR MOMENTS $^{57,58,59,63,65}\text{Cu}$; measured hyperfine spectra using in-gas-cell resonant ionization laser spectroscopy; deduced g-factors, isotope shifts, magnetic dipole moments, and configuration. Comparison with shell-model calculations using GXPF1 interaction. JOUR PRVCA 81 014314 |

A=64

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| ^{64}Zn | 2009EK01 | NUCLEAR REACTIONS $^{109}\text{Ag}(^{100}\text{Cd}, ^{100}\text{Cd}')$, E=287.0 MeV; ^{64}Zn , $^{109}\text{Ag}(^{102}\text{Cd}, ^{102}\text{Cd}')$, E=292.7 MeV; ^{64}Zn , $^{109}\text{Ag}(^{104}\text{Cd}, ^{104}\text{Cd}')$, E=298.7 MeV; measured $E\gamma$, $I\gamma$, γ (particle)-coin, and γ -ray yields using REX-ISOLDE facility. ^{64}Zn , $^{100,102,104}\text{Cd}$, ^{109}Ag ; deduced levels, J, π , E2 matrix elements, electric quadrupole moments. Comparison with shell model calculations. JOUR PRVCA 80 054302 |
| | 2009ZA09 | NUCLEAR REACTIONS $^{64}\text{Zn}(^6\text{Li}, ^6\text{Li})$, E=12.0, 13.0, 13.8, 15.0, 16.5, 18.0, 20.0, 22.0 MeV; measured ^6Li spectra, σ , and $\sigma(\theta)$. Optical model analysis. JOUR PRVCA 80 064610 |
| | 2010ZU02 | RADIOACTIVITY $^{106,114,116}\text{Cd}$, $^{120,128,130}\text{Te}$, $^{64}\text{Zn}(2\beta)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 267 |

A=65

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| ^{65}Ni | 2009D0ZZ | NUCLEAR REACTIONS $^{60}\text{Fe}(n, \gamma)$, E \approx 25 keV; $^{62}\text{Ni}(n, \gamma)$, E \approx 25 keV; $^{64}\text{Ni}(n, \gamma)$, E \approx 52 keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ , Γ_n / Γ_γ versus resonance energy. Compared ENDF / B-VII.0, JEFF 3.1, JENDL 3.3, BROND 2.2. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P230,Domingo-Pardo |
| ^{65}Cu | 2009C0ZX | NUCLEAR MOMENTS $^{57,58,59,63,65}\text{Cu}$; measured hyperfine structure using in-gas-cell laser spectroscopy technique at LISOL facility; deduced magnetic moments, hyperfine parameters and shell-model calculations using GXPF1 interaction. PREPRINT Cocolios,12/17/2009 |
| | 2010C001 | NUCLEAR MOMENTS $^{57,58,59,63,65}\text{Cu}$; measured hyperfine spectra using in-gas-cell resonant ionization laser spectroscopy; deduced g-factors, isotope shifts, magnetic dipole moments, and configuration. Comparison with shell-model calculations using GXPF1 interaction. JOUR PRVCA 81 014314 |

A=65 (continued)

⁶⁵Zn 2010DI02 NUCLEAR REACTIONS ¹⁹⁷Au, ⁹⁴Zr, ⁶⁴Zn, ⁴⁵Sc, ¹³⁹La(n, γ),
E=thermal; measured E γ , I γ ; deduced shape of neutron flux,
covariances. JOUR ARISE 68 592

A=66

No references found

A=67

No references found

A=68

No references found

A=69

⁶⁹Mn 2010ST01 NUCLEAR REACTIONS ^{13,14}C(⁴⁸Ca, X), E=130 MeV; measured E γ ,
I γ , $\gamma\gamma$ -coin using the Gammasphere array, $\gamma(\theta)$, DCO ratios.
^{57,58,59,69}Mn; deduced levels, J, π , multipolarities. Comparison with
shell-model calculations using the GXPF1A effective interaction.
JOUR PRVCA 81 014305

⁶⁹Zn 2008SEZU NUCLEAR REACTIONS ^{68,70}Zn(n, γ), E \approx thermal; measured E γ , I γ ;
deduced resonance integral, σ , isomer σ . CONF Nice (Nucl Data for
Sci and Technol) Proc,P509

2008VLZZ NUCLEAR REACTIONS ^{72,74}Ge(n, α), E=9.6, 10.6, 11.1, 11.4 MeV;
⁷⁶Ge(n, 2n), E=9.6, 10.6, 11.1, 11.4 MeV; measured E γ , I γ ; deduced σ
isomer, σ ground state; calculated σ isomer, σ ground state using
EMPIRE; ¹⁹¹Ir(n, 2n), E=10.0, 10.5, 11.0, 11.3 MeV; measured E γ ,
I γ (t); deduced σ isomer, σ ground state; calculated σ isomer, σ ground
state using STAPRE-F. Compared to other data. CONF Nice (Nucl
Data for Sci and Technol) Proc,P471

2009VLZZ NUCLEAR REACTIONS ^{72,74}Ge(n, α), E=9.6-11.4 MeV; ⁷⁶Ge(n, 2n),
E=9.6-11.4 MeV; measured ^{69,71}Zn, ⁷⁵Ge E γ , I γ , isomeric transition;
deduced σ (g), σ (m); calculated σ (g), σ (m) using EMPIRE-II code;
analyzed influence of pre-equilibrium. Compared to available data.
CONF Cologne (Capture Gamma-Ray Spectroscopy)
Proc,P627,Vlastou

A=70

No references found

KEYNUMBERS AND KEYWORDS

A=71

- ⁷¹Zn 2008SEZU NUCLEAR REACTIONS ^{68,70}Zn(n, γ), E \approx thermal; measured E γ , I γ ; deduced resonance integral, σ , isomer σ . CONF Nice (Nucl Data for Sci and Technol) Proc,P509
- 2008VLZZ NUCLEAR REACTIONS ^{72,74}Ge(n, α), E=9.6, 10.6, 11.1, 11.4 MeV; ⁷⁶Ge(n, 2n), E=9.6, 10.6, 11.1, 11.4 MeV; measured E γ , I γ ; deduced σ isomer, σ ground state; calculated σ isomer, σ ground state using EMPIRE; ¹⁹¹Ir(n, 2n), E=10.0, 10.5, 11.0, 11.3 MeV; measured E γ , I γ (t); deduced σ isomer, σ ground state; calculated σ isomer, σ ground state using STAPRE-F. Compared to other data. CONF Nice (Nucl Data for Sci and Technol) Proc,P471
- 2009VLZZ NUCLEAR REACTIONS ^{72,74}Ge(n, α), E=9.6-11.4 MeV; ⁷⁶Ge(n, 2n), E=9.6-11.4 MeV; measured ^{69,71}Zn, ⁷⁵Ge E γ , I γ , isomeric transition; deduced σ (g), σ (m); calculated σ (g), σ (m) using EMPIRE-II code; analyzed influence of pre-equilibrium. Compared to available data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P627,Vlastou

A=72

No references found

A=73

No references found

A=74

- ⁷⁴Ge 2009WAZW NUCLEAR REACTIONS ⁷⁷Se, ⁹⁹Ru, ¹⁰¹Ru, ¹²³Te(n, α), E=thermal; measured E α , I α ; deduced E, J, π . CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P84,Wagemans

A=75

- ⁷⁵Ge 2008VLZZ NUCLEAR REACTIONS ^{72,74}Ge(n, α), E=9.6, 10.6, 11.1, 11.4 MeV; ⁷⁶Ge(n, 2n), E=9.6, 10.6, 11.1, 11.4 MeV; measured E γ , I γ ; deduced σ isomer, σ ground state; calculated σ isomer, σ ground state using EMPIRE; ¹⁹¹Ir(n, 2n), E=10.0, 10.5, 11.0, 11.3 MeV; measured E γ , I γ (t); deduced σ isomer, σ ground state; calculated σ isomer, σ ground state using STAPRE-F. Compared to other data. CONF Nice (Nucl Data for Sci and Technol) Proc,P471

KEYNUMBERS AND KEYWORDS

A=75 (continued)

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| | 2009VLZZ | NUCLEAR REACTIONS $^{72,74}\text{Ge}(n, \alpha)$, E=9.6-11.4 MeV; $^{76}\text{Ge}(n, 2n)$, E=9.6-11.4 MeV; measured $^{69,71}\text{Zn}$, ^{75}Ge E γ , I γ , isomeric transition; deduced $\sigma(g)$, $\sigma(m)$; calculated $\sigma(g)$, $\sigma(m)$ using EMPIRE-II code; analyzed influence of pre-equilibrium. Compared to available data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P627,Vlastou |
| | 2010ME01 | NUCLEAR REACTIONS $^{74}\text{Ge}(n, \gamma)^{75}\text{Ge}$ / ^{75m}Ge , E=thermal; measured E γ , I γ , σ using activation method and cold neutrons. Comparison with previous results. JOUR PRVCA 81 027603 |
| ^{75}As | 2009HAZX | NUCLEAR REACTIONS $^{74}\text{Ge}(p, \gamma)$, E=2-3 MeV; measured E γ , I γ using HPGe detectors of HORUS γ array. Further evaluation in progress. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P298,Hasper |
| ^{75}Se | 2009IGZZ | NUCLEAR REACTIONS $^{74,77}\text{Se}(n, \gamma)$, E=15-100keV; measured E γ , I γ ; deduced σ , $d\sigma(E\gamma)$. Compared to other measurements and to JENDL-3.3, ENDF / B-VII.0 and ENDF / B-VI.8. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P376,Igashira |

A=76

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| ^{76}Zn | 2009IL01 | RADIOACTIVITY $^{77}\text{Cu}(\beta^-)$, (β^-n) [from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ^{77}Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. $^{77m}\text{Zn(IT)}$; measured E γ , half-life and decay branches. $^{76,77}\text{Zn}$, $^{76,77}\text{Ga}$, $^{77}\text{Ge}(\beta^-)$; measured E γ . $^{76,77}\text{Zn}$; deduced levels, J, π , and half-life. Comparison with ^{73}Cu to ^{73}Zn decay. JOUR PRVCA 80 054304 |
| ^{76}Ga | 2009IL01 | RADIOACTIVITY $^{77}\text{Cu}(\beta^-)$, (β^-n) [from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ^{77}Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. $^{77m}\text{Zn(IT)}$; measured E γ , half-life and decay branches. $^{76,77}\text{Zn}$, $^{76,77}\text{Ga}$, $^{77}\text{Ge}(\beta^-)$; measured E γ . $^{76,77}\text{Zn}$; deduced levels, J, π , and half-life. Comparison with ^{73}Cu to ^{73}Zn decay. JOUR PRVCA 80 054304 |
| ^{76}Ge | 2009IL01 | RADIOACTIVITY $^{77}\text{Cu}(\beta^-)$, (β^-n) [from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ^{77}Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. $^{77m}\text{Zn(IT)}$; measured E γ , half-life and decay branches. $^{76,77}\text{Zn}$, $^{76,77}\text{Ga}$, $^{77}\text{Ge}(\beta^-)$; measured E γ . $^{76,77}\text{Zn}$; deduced levels, J, π , and half-life. Comparison with ^{73}Cu to ^{73}Zn decay. JOUR PRVCA 80 054304 |

A=77

- ⁷⁷Cu 2009IL01 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ⁷⁷Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. ^{77m}Zn(IT); measured E γ , half-life and decay branches. ^{76,77}Zn, ^{76,77}Ga, ⁷⁷Ge(β^-); measured E γ . ^{76,77}Zn; deduced levels, J, π , and half-life. Comparison with ⁷³Cu to ⁷³Zn decay. JOUR PRVCA 80 054304
- ⁷⁷Zn 2009IL01 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ⁷⁷Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. ^{77m}Zn(IT); measured E γ , half-life and decay branches. ^{76,77}Zn, ^{76,77}Ga, ⁷⁷Ge(β^-); measured E γ . ^{76,77}Zn; deduced levels, J, π , and half-life. Comparison with ⁷³Cu to ⁷³Zn decay. JOUR PRVCA 80 054304
- ⁷⁷Ga 2009IL01 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ⁷⁷Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. ^{77m}Zn(IT); measured E γ , half-life and decay branches. ^{76,77}Zn, ^{76,77}Ga, ⁷⁷Ge(β^-); measured E γ . ^{76,77}Zn; deduced levels, J, π , and half-life. Comparison with ⁷³Cu to ⁷³Zn decay. JOUR PRVCA 80 054304
- ⁷⁷Ge 2009IL01 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ⁷⁷Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. ^{77m}Zn(IT); measured E γ , half-life and decay branches. ^{76,77}Zn, ^{76,77}Ga, ⁷⁷Ge(β^-); measured E γ . ^{76,77}Zn; deduced levels, J, π , and half-life. Comparison with ⁷³Cu to ⁷³Zn decay. JOUR PRVCA 80 054304
- 2009MEZW NUCLEAR REACTIONS ⁷⁶Ge(n, γ), E \approx 1.83 meV; measured E γ , I γ ; deduced ⁷⁷Ge ground-state σ , isomer σ , isomeric ratio. GERDA facility. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P559,Meierhofer
- 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ⁷⁷As 2009IL01 RADIOACTIVITY ⁷⁷Cu(β^-), (β^-n)[from U(p, X), E not given]; measured E γ , I γ , β -spectra, $\gamma\gamma$ -, $\beta\gamma$ -coin, half-lives. Isobarically purified ⁷⁷Cu beams of 200 keV and 225 MeV obtained at the Holifield Radioactive Ion Beam Facility. ^{77m}Zn(IT); measured E γ , half-life and decay branches. ^{76,77}Zn, ^{76,77}Ga, ⁷⁷Ge(β^-); measured E γ . ^{76,77}Zn; deduced levels, J, π , and half-life. Comparison with ⁷³Cu to ⁷³Zn decay. JOUR PRVCA 80 054304

KEYNUMBERS AND KEYWORDS

A=78

⁷⁸ Se	2009IGZZ	NUCLEAR REACTIONS ^{74,77} Se(n, γ), E=15-100keV; measured E γ , I γ ; deduced σ , d σ (E γ). Compared to other measurements and to JENDL-3.3, ENDF / B-VII.0 and ENDF / B-VI.8. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P376,Igashira
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A=79

No references found

A=80

No references found

A=81

No references found

A=82

⁸² Se	2010SI06	RADIOACTIVITY ¹⁰⁰ Mo, ⁸² Se, ¹¹⁶ Cd, ¹⁵⁰ Nd, ⁹⁶ Zr, ⁴⁸ Ca, ¹³⁰ Te(2 β^-); measured Ee, Ie; deduced T _{1/2} . JOUR PPNPD 64 270
⁸² Br	2010DE01	NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
⁸² Kr	2010SI06	RADIOACTIVITY ¹⁰⁰ Mo, ⁸² Se, ¹¹⁶ Cd, ¹⁵⁰ Nd, ⁹⁶ Zr, ⁴⁸ Ca, ¹³⁰ Te(2 β^-); measured Ee, Ie; deduced T _{1/2} . JOUR PPNPD 64 270
⁸² Nb	2009GA40	NUCLEAR REACTIONS Be(¹⁰⁷ Ag, X) ⁸² Nb / ⁸⁴ Nb / ⁸⁶ Tc / ⁸⁷ Tc / ⁸⁸ Tc / ⁹⁰ Rh / ⁹³ Ru / ⁹⁴ Pd / ⁹⁶ Pd, E=750 MeV / nucleon; measured E γ , I γ , isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84} Nb, ^{86,87,88} Tc, ⁹³ Ru, ^{94,96} Pd; deduced levels, isomers, J, π , and half-lives. ⁸² Nb, ⁸⁶ Tc; calculated potential energy surfaces. ⁸² Nb, ^{86,88} Tc; calculated levels by shell-model and comparison with level systematics of ⁸² Zr and ⁸⁶ Mo. JOUR PRVCA 80 064303

A=83

No references found

KEYNUMBERS AND KEYWORDS

A=84

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| ^{84}Rb | 2010MA02 | NUCLEAR REACTIONS $^{85,87}\text{Rb}(\gamma, n)^{84}\text{Rb} / ^{86}\text{Rb}$, E=10.5-12 MeV; measured $E\gamma$, $I\gamma$; deduced yields of isomers, J, π . Comparison with TALYS calculation. JOUR JPGPE 37 035101 |
| ^{84}Nb | 2009GA40 | NUCLEAR REACTIONS $\text{Be}(^{107}\text{Ag}, X)^{82}\text{Nb} / ^{84}\text{Nb} / ^{86}\text{Tc} / ^{87}\text{Tc} / ^{88}\text{Tc} / ^{90}\text{Rh} / ^{93}\text{Ru} / ^{94}\text{Pd} / ^{96}\text{Pd}$, E=750 MeV / nucleon; measured $E\gamma$, $I\gamma$, isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. $^{82,84}\text{Nb}$, $^{86,87,88}\text{Tc}$, ^{93}Ru , $^{94,96}\text{Pd}$; deduced levels, isomers, J, π , and half-lives. ^{82}Nb , ^{86}Tc ; calculated potential energy surfaces. ^{82}Nb , $^{86,88}\text{Tc}$; calculated levels by shell-model and comparison with level systematics of ^{82}Zr and ^{86}Mo . JOUR PRVCA 80 064303 |

A=85

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| ^{85}As | 2010LI02 | ATOMIC MASSES $^{85,86}\text{As}$, ^{89}Se , ^{123}Ag , ^{138}Te , $^{140,141}\text{I}$, ^{143}Xe , $^{221,222}\text{At}$, ^{223}Rn , ^{228}Fr , ^{231}Ra ; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511 |
| ^{85}Kr | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, F)^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{85}Sr | 2009KIZX | NUCLEAR REACTIONS $^{85}\text{Rb}(p, n)$, E=2-4 MeV; measured $E\gamma$, $I\gamma$, isomeric transition; deduced ground state σ , isomeric σ , S-factor; calculated using NON-SMOKER Hauser-Feshbach code using different optical model parameters. Compared to data of Kastleiner. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P476,Kiss |
| | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, F)^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{85}Y | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, F)^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |

KEYNUMBERS AND KEYWORDS

A=86

- ⁸⁶As 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511
- ⁸⁶Rb 2010MA02 NUCLEAR REACTIONS ^{85,87}Rb(γ , n)⁸⁴Rb / ⁸⁶Rb, E=10.5-12 MeV; measured E γ , I γ ; deduced yields of isomers, J, π . Comparison with TALYS calculation. JOUR JPGPE 37 035101
- ⁸⁶Tc 2009GA40 NUCLEAR REACTIONS Be(¹⁰⁷Ag, X)⁸²Nb / ⁸⁴Nb / ⁸⁶Tc / ⁸⁷Tc / ⁸⁸Tc / ⁹⁰Rh / ⁹³Ru / ⁹⁴Pd / ⁹⁶Pd, E=750 MeV / nucleon; measured E γ , I γ , isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84}Nb, ^{86,87,88}Tc, ⁹³Ru, ^{94,96}Pd; deduced levels, isomers, J, π , and half-lives. ⁸²Nb, ⁸⁶Tc; calculated potential energy surfaces. ⁸²Nb, ^{86,88}Tc; calculated levels by shell-model and comparison with level systematics of ⁸²Zr and ⁸⁶Mo. JOUR PRVCA 80 064303

A=87

- ⁸⁷Kr 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ⁸⁷Sr 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ⁸⁷Y 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ⁸⁷Tc 2009GA40 NUCLEAR REACTIONS Be(¹⁰⁷Ag, X)⁸²Nb / ⁸⁴Nb / ⁸⁶Tc / ⁸⁷Tc / ⁸⁸Tc / ⁹⁰Rh / ⁹³Ru / ⁹⁴Pd / ⁹⁶Pd, E=750 MeV / nucleon; measured E γ , I γ , isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84}Nb, ^{86,87,88}Tc, ⁹³Ru, ^{94,96}Pd; deduced levels, isomers, J, π , and half-lives. ⁸²Nb, ⁸⁶Tc; calculated potential energy surfaces. ⁸²Nb, ^{86,88}Tc; calculated levels by shell-model and comparison with level systematics of ⁸²Zr and ⁸⁶Mo. JOUR PRVCA 80 064303

KEYNUMBERS AND KEYWORDS

A=88

- ⁸⁸Br 2010RE01 NUCLEAR REACTIONS ²³²Th(⁶Li, X), E=45 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ⁸⁸Br, ⁹³Rb, ^{95,98,99}Y, ⁹⁹Mo, ¹⁰⁰Tc, ^{121,123}In, ^{119,120,121,122,123,124,125,126,127}Sn, ^{123,125,127,131}Sb, ¹³¹I, ¹³²Te, ^{134,136}Xe; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301
- ⁸⁸Kr 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ⁸⁸Zr 2009BRZV NUCLEAR REACTIONS ⁸⁹Y(p, 2n), E=tandem; measured E γ , I γ ; deduced ⁸⁸Zr multipole mixing ratio, B(M1), B(E2). CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P581,Braun
- ⁸⁸Tc 2009GA40 NUCLEAR REACTIONS Be(¹⁰⁷Ag, X)⁸²Nb / ⁸⁴Nb / ⁸⁶Tc / ⁸⁷Tc / ⁸⁸Tc / ⁹⁰Rh / ⁹³Ru / ⁹⁴Pd / ⁹⁶Pd, E=750 MeV / nucleon; measured E γ , I γ , isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84}Nb, ^{86,87,88}Tc, ⁹³Ru, ^{94,96}Pd; deduced levels, isomers, J, π , and half-lives. ⁸²Nb, ⁸⁶Tc; calculated potential energy surfaces. ⁸²Nb, ^{86,88}Tc; calculated levels by shell-model and comparison with level systematics of ⁸²Zr and ⁸⁶Mo. JOUR PRVCA 80 064303

A=89

- ⁸⁹Se 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511

A=90

- ⁹⁰Zr 2010KR01 NUCLEAR REACTIONS ⁵⁸Ni, ⁹⁰Zr(⁶Li, ⁶Li), (⁶Li, ⁶Li'), E=240 MeV; measured particle spectra, $\sigma(\theta)$ using multipole dipole-multipole (MDM) magnetic spectrometer. ⁵⁸Ni, ⁹⁰Zr; deduced levels, J, π , B(E2) for first 2+, and B(E3) for first 3- states. Comparison with deformed potential (DP) model and density-dependent double-folding (DDF) calculations using M3Y NN effective interaction and phenomenological Woods-Saxon potential. JOUR PRVCA 81 014603
- ⁹⁰Nb 2010MA10 NUCLEAR REACTIONS Zr(⁷Li, X)⁹³Tc / ⁹⁴Tc / ^{94m}Tc / ⁹⁵Tc / ⁹⁶Tc / ^{96m}Tc / ^{93m}Mo / ⁹⁰Nb / ⁹⁶Nb, E=37-45 MeV; Y(⁹Be, X)⁹³Tc / ⁹⁴Tc / ⁹⁵Tc / ^{93m}Mo, E=30-48 MeV; measured E γ , I γ , σ , and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603

KEYNUMBERS AND KEYWORDS

A=90 (continued)

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| ⁹⁰ Mo | 2009BE49 | NUCLEAR REACTIONS ⁹⁰ Zr(³ He, 3n), E=27 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$; deduced mixing ratios. ⁹⁰ Mo; deduced energy levels, J, π , B(E2), B(M1). Comparison with interacting boson model and systematics of adjacent nuclei. JOUR ZAANE 42 7 |
| ⁹⁰ Rh | 2009GA40 | NUCLEAR REACTIONS Be(¹⁰⁷ Ag, X) ⁸² Nb / ⁸⁴ Nb / ⁸⁶ Tc / ⁸⁷ Tc / ⁸⁸ Tc / ⁹⁰ Rh / ⁹³ Ru / ⁹⁴ Pd / ⁹⁶ Pd, E=750 MeV / nucleon; measured E γ , I γ , isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84} Nb, ^{86,87,88} Tc, ⁹³ Ru, ^{94,96} Pd; deduced levels, isomers, J, π , and half-lives. ⁸² Nb, ⁸⁶ Tc; calculated potential energy surfaces. ⁸² Nb, ^{86,88} Tc; calculated levels by shell-model and comparison with level systematics of ⁸² Zr and ⁸⁶ Mo. JOUR PRVCA 80 064303 |

A=91

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| ⁹¹ Sr | 2010DE01 | NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ⁹¹ Y | 2010DE01 | NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ⁹¹ Zr | 2010C002 | NUCLEAR REACTIONS ¹⁹⁷ Au, ¹⁵¹ Sm, Pb, ^{204,206,207,208} Pb, ²⁰⁹ Bi, ¹³⁹ La, ²³² Th, ^{24,25,26} Mg, ^{90,91,92,93,94,95,96} Zr, ^{186,187,188} Os, ^{233,234,235,236,238} U, ²³⁷ Np, ²⁴⁰ Pu, ^{241,243} Am, ²⁴⁵ Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643 |

A=92

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| ⁹² Kr | 2009MUZW | NUCLEAR REACTIONS ¹² C(⁸⁸ Kr, ⁸⁸ Kr'), E not given; ¹⁰⁹ Ag(⁹² Kr, ⁹² Kr'), E not given; measured Coulomb excitation E γ , I γ ; deduced ^{88,92} Kr B(E2). ⁹² Kr B(E2) in contrast to what was supposed. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P587,Mucher |
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KEYNUMBERS AND KEYWORDS

A=92 (continued)

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| ^{92}Sr | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{92}Y | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{92}Zr | 2009SCZV | NUCLEAR REACTIONS $^{92}\text{Zr}(e, e')$, E=63 MeV; measured E_e , I_e , $\theta(e)$; deduced B(E2) using PWBA and QPM (Quasiparticle-Phonon Model) calculations. Compared with data obtained from (n, n' γ) reaction. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P607,Scheikh-Obeid |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, E=0.001-1 MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| ^{92}Nb | 2009ZH37 | NUCLEAR REACTIONS ^{93}Nb , $^{122,128}\text{Te}(n, 2n)^{92m}\text{Nb} / ^{121}\text{Te} / ^{121m}\text{Te} / ^{127}\text{Te} / ^{127m}\text{Te} /$, E=14 MeV; measured $E\gamma$, $I\gamma$ and σ by activation method relative to that for $^{93}\text{Nb}(n, 2n)^{92m}\text{Nb}$ reaction; analyzed σ for ^{121g}Te and ^{127g}Te by considering effects of population of isomeric states. JOUR PRVCA 80 054615 |
| | 2010LU01 | NUCLEAR REACTIONS $^{152,154,160}\text{Gd}$, $^{93}\text{Nb}(n, 2n)$, $^{156,157,158}\text{Gd}(n, p)$, ^{27}Al , $^{158}\text{Gd}(n, \alpha)$, E=13.5-14.8 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with available experimental data. JOUR RAACA 98 127 |

A=93

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| ^{93}Rb | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
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KEYNUMBERS AND KEYWORDS

A=93 (continued)

⁹³ Y	2010DE01	NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
⁹³ Zr	2010C002	NUCLEAR REACTIONS ¹⁹⁷ Au, ¹⁵¹ Sm, Pb, ^{204,206,207,208} Pb, ²⁰⁹ Bi, ¹³⁹ La, ²³² Th, ^{24,25,26} Mg, ^{90,91,92,93,94,95,96} Zr, ^{186,187,188} Os, ^{233,234,235,236,238} U, ²³⁷ Np, ²⁴⁰ Pu, ^{241,243} Am, ²⁴⁵ Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643
	2010YA01	RADIOACTIVITY ⁹³ Zr(β^-); measured E γ , I γ ; deduced T _{1/2} . JOUR RAACA 98 59
⁹³ Nb	2010YA01	RADIOACTIVITY ⁹³ Zr(β^-); measured E γ , I γ ; deduced T _{1/2} . JOUR RAACA 98 59
⁹³ Mo	2010DE01	NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
	2010MA10	NUCLEAR REACTIONS Zr(⁷ Li, X) ⁹³ Tc / ⁹⁴ Tc / ^{94m} Tc / ⁹⁵ Tc / ⁹⁶ Tc / ^{96m} Tc / ^{93m} Mo / ⁹⁰ Nb / ⁹⁶ Nb, E=37-45 MeV; Y(⁹ Be, X) ⁹³ Tc / ⁹⁴ Tc / ⁹⁵ Tc / ^{93m} Mo, E=30-48 MeV; measured E γ , I γ , σ , and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603
⁹³ Tc	2010DE01	NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
	2010MA10	NUCLEAR REACTIONS Zr(⁷ Li, X) ⁹³ Tc / ⁹⁴ Tc / ^{94m} Tc / ⁹⁵ Tc / ⁹⁶ Tc / ^{96m} Tc / ^{93m} Mo / ⁹⁰ Nb / ⁹⁶ Nb, E=37-45 MeV; Y(⁹ Be, X) ⁹³ Tc / ⁹⁴ Tc / ⁹⁵ Tc / ^{93m} Mo, E=30-48 MeV; measured E γ , I γ , σ , and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603
⁹³ Ru	2009GA40	NUCLEAR REACTIONS Be(¹⁰⁷ Ag, X) ⁸² Nb / ⁸⁴ Nb / ⁸⁶ Tc / ⁸⁷ Tc / ⁸⁸ Tc / ⁹⁰ Rh / ⁹³ Ru / ⁹⁴ Pd / ⁹⁶ Pd, E=750 MeV / nucleon; measured E γ , I γ , isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84} Nb, ^{86,87,88} Tc, ⁹³ Ru, ^{94,96} Pd; deduced levels, isomers, J, π , and half-lives. ⁸² Nb, ⁸⁶ Tc; calculated potential energy surfaces. ⁸² Nb, ^{86,88} Tc; calculated levels by shell-model and comparison with level systematics of ⁸² Zr and ⁸⁶ Mo. JOUR PRVCA 80 064303

A=94

- ⁹⁴Zr 2009YAZT NUCLEAR REACTIONS ⁹⁴Zr(n, n'γ), E not given; measured Eγ, Iγ, γγ-coin.; deduced E, J, π, B(M1), B(E2), bands, mixed-symmetry states. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P517,Yates
- 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured Eγ, Iγ, fission fragments; deduced σ. JOUR ARISE 68 643
- ⁹⁴Tc 2010MA10 NUCLEAR REACTIONS Zr(⁷Li, X)⁹³Tc / ⁹⁴Tc / ^{94m}Tc / ⁹⁵Tc / ⁹⁶Tc / ^{96m}Tc / ^{93m}Mo / ⁹⁰Nb / ⁹⁶Nb, E=37-45 MeV; Y(⁹Be, X)⁹³Tc / ⁹⁴Tc / ⁹⁵Tc / ^{93m}Mo, E=30-48 MeV; measured Eγ, Iγ, σ, and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603
- ⁹⁴Pd 2009GA40 NUCLEAR REACTIONS Be(¹⁰⁷Ag, X)⁸²Nb / ⁸⁴Nb / ⁸⁶Tc / ⁸⁷Tc / ⁸⁸Tc / ⁹⁰Rh / ⁹³Ru / ⁹⁴Pd / ⁹⁶Pd, E=750 MeV / nucleon; measured Eγ, Iγ, isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. ^{82,84}Nb, ^{86,87,88}Tc, ⁹³Ru, ^{94,96}Pd; deduced levels, isomers, J, π, and half-lives. ⁸²Nb, ⁸⁶Tc; calculated potential energy surfaces. ⁸²Nb, ^{86,88}Tc; calculated levels by shell-model and comparison with level systematics of ⁸²Zr and ⁸⁶Mo. JOUR PRVCA 80 064303

A=95

- ⁹⁵Y 2010RE01 NUCLEAR REACTIONS ²³²Th(⁶Li, X), E=45 MeV; measured Eγ, Iγ, γγ-coin, particle spectra, (particle)γ-coin, (particle)γ-correlations using STARS Si array at LBNL and Ge detectors. ⁸⁸Br, ⁹³Rb, ^{95,98,99}Y, ⁹⁹Mo, ¹⁰⁰Tc, ^{121,123}In, ^{119,120,121,122,123,124,125,126,127}Sn, ^{123,125,127,131}Sb, ¹³¹I, ¹³²Te, ^{134,136}Xe; measured isomer half-lives; deduced levels, J, π. Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301
- ⁹⁵Zr 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured Eγ, Iγ, fission fragments; deduced σ. JOUR ARISE 68 643
- 2010DE01 NUCLEAR REACTIONS ²³²Th(γ, F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured Eγ, Iγ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- 2010DI02 NUCLEAR REACTIONS ¹⁹⁷Au, ⁹⁴Zr, ⁶⁴Zn, ⁴⁵Sc, ¹³⁹La(n, γ), E=thermal; measured Eγ, Iγ; deduced shape of neutron flux, covariances. JOUR ARISE 68 592

KEYNUMBERS AND KEYWORDS

A=95 (continued)

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| ⁹⁵ Nb | 2010DE01 | NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ⁹⁵ Tc | 2008KIZS | NUCLEAR REACTIONS Ta(n, x), E=0.01-100 eV; Mo(n, x), E=0.01-200 eV; measured En, In using TOF; deduced σ ; Mo(p, xn) ⁹⁵ Tc, E=2.5-42 MeV; Mo(p, xn) ⁹⁶ Tc, E=2.5-42 MeV; Mo(p, xn) ⁹⁹ Tc, E=2.5-42 MeV; measured E γ , I γ ; deduced σ , isomeric σ ; calculated σ using ALICE-IPPE. Compared with other data, ENDF / B-VI.8 (n, xn). CONF Nice (Nucl Data for Sci and Technol) Proc,P533 |
| | 2010DE01 | NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| | 2010MA10 | NUCLEAR REACTIONS Zr(⁷ Li, X) ⁹³ Tc / ⁹⁴ Tc / ^{94m} Tc / ⁹⁵ Tc / ⁹⁶ Tc / ^{96m} Tc / ^{93m} Mo / ⁹⁰ Nb / ⁹⁶ Nb, E=37-45 MeV; Y(⁹ Be, X) ⁹³ Tc / ⁹⁴ Tc / ⁹⁵ Tc / ^{93m} Mo, E=30-48 MeV; measured E γ , I γ , σ , and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603 |

A=96

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| ⁹⁶ Zr | 2010C002 | NUCLEAR REACTIONS ¹⁹⁷ Au, ¹⁵¹ Sm, Pb, ^{204,206,207,208} Pb, ²⁰⁹ Bi, ¹³⁹ La, ²³² Th, ^{24,25,26} Mg, ^{90,91,92,93,94,95,96} Zr, ^{186,187,188} Os, ^{233,234,235,236,238} U, ²³⁷ Np, ²⁴⁰ Pu, ^{241,243} Am, ²⁴⁵ Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643 |
| | 2010SI06 | RADIOACTIVITY ¹⁰⁰ Mo, ⁸² Se, ¹¹⁶ Cd, ¹⁵⁰ Nd, ⁹⁶ Zr, ⁴⁸ Ca, ¹³⁰ Te(2 β^-); measured Ee, Ie; deduced T _{1/2} . JOUR PPNPD 64 270 |
| ⁹⁶ Nb | 2010DE01 | NUCLEAR REACTIONS ²³² Th(γ , F) ⁷⁷ Ge / ⁸² Br / ⁸⁵ Kr / ⁸⁵ Sr / ⁸⁵ Y / ⁸⁷ Kr / ⁸⁷ Sr / ⁸⁷ Y / ⁸⁸ Kr / ⁹¹ Sr / ⁹¹ Y / ⁹² Sr / ⁹² Y / ⁹³ Y / ⁹³ Mo / ⁹³ Tc / ⁹⁵ Zr / ⁹⁵ Nb / ⁹⁵ Tc / ⁹⁶ Nb / ⁹⁷ Zr / ⁹⁷ Nb / ⁹⁹ Mo / ⁹⁹ Tc / ⁹⁹ Rh / ¹⁰¹ Tc / ¹⁰¹ Rh / ¹⁰³ Ru / ¹⁰⁵ Ru / ¹⁰⁵ Rh / ¹⁰⁹ In / ¹¹¹ Pd / ¹¹¹ Ag / ¹¹² Pd / ¹¹² Ag / ¹¹³ Ag / ¹¹⁵ Ag / ¹¹⁵ Cd / ¹¹⁷ Cd / ¹¹⁷ In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| | 2010MA10 | NUCLEAR REACTIONS Zr(⁷ Li, X) ⁹³ Tc / ⁹⁴ Tc / ^{94m} Tc / ⁹⁵ Tc / ⁹⁶ Tc / ^{96m} Tc / ^{93m} Mo / ⁹⁰ Nb / ⁹⁶ Nb, E=37-45 MeV; Y(⁹ Be, X) ⁹³ Tc / ⁹⁴ Tc / ⁹⁵ Tc / ^{93m} Mo, E=30-48 MeV; measured E γ , I γ , σ , and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603 |

KEYNUMBERS AND KEYWORDS

A=96 (*continued*)

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| ^{96}Mo | 2009KOZU | NUCLEAR REACTIONS $^{95}\text{Mo}(n, \gamma)$, E not given; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced E, J, π , pulse-height in resonance regions; $^{147}\text{Sm}(n, \gamma)$, E=0-700 eV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced E, J, π , resonance spacing distributions, reduced neutron width; analyzed width distributions. Compared with Porter-Thomas, Mo measurements using (CIND)ORELA, Sm ones using DANCE at LANSCE. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P424,Koehler |
| | 2009SIZY | NUCLEAR REACTIONS $\text{Dy}(^3\text{He}, ^3\text{He}'\gamma)$, E=38-45 MeV; $\text{Dy}(^3\text{He}, \alpha\gamma)$, E=38-45 MeV; $\text{Sm}(^3\text{He}, ^3\text{He}'\gamma)$, E=38-45 MeV; $\text{Sm}(^3\text{He}, \alpha\gamma)$, E=38-45 MeV; $^{96}\text{Mo}(^3\text{He}, ^3\text{He}'\gamma)$, E=38-45 MeV; $^{97}\text{Mo}(^3\text{He}, \alpha\gamma)$, E=38-45 MeV; measured $E\gamma$, $I\gamma$, particle- γ -coin.; deduced $^{146,148}\text{Sm}$, ^{162}Dy nuclear level density, ^{146}Sm nuclear level density, $^{116,117}\text{Sn}$, $^{163,164}\text{Dy}$ radiative strength function, $^{116,117}\text{Sn}$ possible neutron skin oscillations using also other data; ^{96}Mo radiative strength function enhancement at low energies; calculated $^{116,117}\text{Sn}$ radiative strength functions using QRPA. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P66,Siem |
| | 2009WAZW | NUCLEAR REACTIONS ^{77}Se , ^{99}Ru , ^{101}Ru , $^{123}\text{Te}(n, \alpha)$, E=thermal; measured $E\alpha$, $I\alpha$; deduced E, J, π . CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P84,Wagemans |
| | 2010SI06 | RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured E_e , I_e ; deduced $T_{1/2}$. JOUR PPNPD 64 270 |
| ^{96}Tc | 2008KIZS | NUCLEAR REACTIONS $\text{Ta}(n, x)$, E=0.01-100 eV; $\text{Mo}(n, x)$, E=0.01-200 eV; measured E_n , I_n using TOF; deduced σ ; $\text{Mo}(p, xn)^{95}\text{Tc}$, E=2.5-42 MeV; $\text{Mo}(p, xn)^{96}\text{Tc}$, E=2.5-42 MeV; $\text{Mo}(p, xn)^{99}\text{Tc}$, E=2.5-42 MeV; measured $E\gamma$, $I\gamma$; deduced σ , isomeric σ ; calculated σ using ALICE-IPPE. Compared with other data, ENDF / B-VI.8 (n, xn). CONF Nice (Nucl Data for Sci and Technol) Proc,P533 |
| | 2010MA10 | NUCLEAR REACTIONS $\text{Zr}(^7\text{Li}, X)^{93}\text{Tc} / ^{94}\text{Tc} / ^{94m}\text{Tc} / ^{95}\text{Tc} / ^{96}\text{Tc} / ^{96m}\text{Tc} / ^{93m}\text{Mo} / ^{90}\text{Nb} / ^{96}\text{Nb}$, E=37-45 MeV; $\text{Y}(^9\text{Be}, X)^{93}\text{Tc} / ^{94}\text{Tc} / ^{95}\text{Tc} / ^{93m}\text{Mo}$, E=30-48 MeV; measured $E\gamma$, $I\gamma$, σ , and excitation functions. Comparisons with calculations using ALICE91 and PACE-II computer codes. JOUR PRVCA 81 024603 |
| ^{96}Pd | 2009GA40 | NUCLEAR REACTIONS $\text{Be}(^{107}\text{Ag}, X)^{82}\text{Nb} / ^{84}\text{Nb} / ^{86}\text{Tc} / ^{87}\text{Tc} / ^{88}\text{Tc} / ^{90}\text{Rh} / ^{93}\text{Ru} / ^{94}\text{Pd} / ^{96}\text{Pd}$, E=750 MeV / nucleon; measured $E\gamma$, $I\gamma$, isomer half-lives, and isomeric ratios, time-of-flight and energy loss for fragment identification, RISING array and MUSIC system at GSI facility. $^{82,84}\text{Nb}$, $^{86,87,88}\text{Tc}$, ^{93}Ru , $^{94,96}\text{Pd}$; deduced levels, isomers, J, π , and half-lives. ^{82}Nb , ^{86}Tc ; calculated potential energy surfaces. ^{82}Nb , $^{86,88}\text{Tc}$; calculated levels by shell-model and comparison with level systematics of ^{82}Zr and ^{86}Mo . JOUR PRVCA 80 064303 |

KEYNUMBERS AND KEYWORDS

A=97

- ⁹⁷Zr 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643
- 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ⁹⁷Nb 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24

A=98

- ⁹⁸Y 2010RE01 NUCLEAR REACTIONS ²³²Th(⁶Li, X), E=45 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ⁸⁸Br, ⁹³Rb, ^{95,98,99}Y, ⁹⁹Mo, ¹⁰⁰Tc, ^{121,123}In, ^{119,120,121,122,123,124,125,126,127}Sn, ^{123,125,127,131}Sb, ¹³¹I, ¹³²Te, ^{134,136}Xe; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301
- ⁹⁸Mo 2009WAZW NUCLEAR REACTIONS ⁷⁷Se, ⁹⁹Ru, ¹⁰¹Ru, ¹²³Te(n, α), E=thermal; measured E α , I α ; deduced E, J, π . CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P84,Wagemans
- ⁹⁸Pd 2009FRZZ NUCLEAR REACTIONS ⁹²Mo(¹⁰B, 3np), E=54 MeV; measured E γ , I γ ; ⁹⁶Ru(³He, n), E=12.5 MeV; measured E γ , I γ , $\gamma\gamma(\theta)$ -coin.; deduced E, J, π , B(M1), B(E2), half-life; calculated yrast states, B(E2) using shell model code OXBASH. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P529,Fransen

A=99

- ⁹⁹Y 2010RE01 NUCLEAR REACTIONS ²³²Th(⁶Li, X), E=45 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ⁸⁸Br, ⁹³Rb, ^{95,98,99}Y, ⁹⁹Mo, ¹⁰⁰Tc, ^{121,123}In, ^{119,120,121,122,123,124,125,126,127}Sn, ^{123,125,127,131}Sb, ¹³¹I, ¹³²Te, ^{134,136}Xe; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301

KEYNUMBERS AND KEYWORDS

A=99 (continued)

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| ^{99}Mo | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{99}Tc | 2008KIZS | NUCLEAR REACTIONS Ta(n, x), E=0.01-100 eV; Mo(n, x), E=0.01-200 eV; measured En, In using TOF; deduced σ ; Mo(p, xn) ^{95}Tc , E=2.5-42 MeV; Mo(p, xn) ^{96}Tc , E=2.5-42 MeV; Mo(p, xn) ^{99}Tc , E=2.5-42 MeV; measured $E\gamma$, $I\gamma$; deduced σ , isomeric σ ; calculated σ using ALICE-IPPE. Compared with other data, ENDF / B-VI.8 (n, xn). CONF Nice (Nucl Data for Sci and Technol) Proc,P533 |
| | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{99}Rh | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |

A=100

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| ^{100}Zr | 2009SH42 | NUCLEAR REACTIONS $^{12}\text{C}(^{238}\text{U}, \text{X})$, E=1.45 GeV; measured $E\gamma$, $I\gamma$ using EXOGAM array, fission fragments using VAMOS detector. ^{134}Xe ; deduced levels, J, π . ^{100}Zr , $^{106,107,108,109}\text{Ru}$, ^{133}Xe , ^{138}Xe ; measured $E\gamma$. Comparison with shell model calculations for $Z>49$, $N<83$ nuclei. JOUR PRVCA 80 051305 |
| ^{100}Mo | 2010SI06 | RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 270 |

KEYNUMBERS AND KEYWORDS

A=100 (continued)

^{100}Tc	2008WEZX	NUCLEAR REACTIONS $^{99}\text{Tc}(n, \gamma)$, E=thermal; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; $^{99}\text{Tc}(d, p)$, E=22 MeV; measured E_p , $I_p(\theta=30^\circ)$, $I_p(\theta=60^\circ)$; deduced σ ; neutron binding energy. No protons corresponding to 223 keV state in ^{100}Tc . CONF Nice (Nucl Data for Sci and Technol) Proc,P611
	2010RE01	NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, X)$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301
^{100}Ru	2010SI06	RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured E_e , I_e ; deduced $T_{1/2}$. JOUR PPNPD 64 270
^{100}Pd	2009RAZX	NUCLEAR REACTIONS $^{99}\text{Ru}(^3\text{He}, 2n)$, E=17 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin., $\gamma\gamma(\theta)$ -coin.; deduced E, J, π , multipole mixing ratio; calculated mixed symmetry states using IBM-2 and shell-model code ANTOINE. HORUS cube. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P597,Radeck
^{100}Cd	2009EK01	NUCLEAR REACTIONS $^{109}\text{Ag}(^{100}\text{Cd}, ^{100}\text{Cd}')$, E=287.0 MeV; ^{64}Zn , $^{109}\text{Ag}(^{102}\text{Cd}, ^{102}\text{Cd}')$, E=292.7 MeV; ^{64}Zn , $^{109}\text{Ag}(^{104}\text{Cd}, ^{104}\text{Cd}')$, E=298.7 MeV; measured $E\gamma$, $I\gamma$, $\gamma(\text{particle})$ -coin, and γ -ray yields using REX-ISOLDE facility. ^{64}Zn , $^{100,102,104}\text{Cd}$, ^{109}Ag ; deduced levels, J, π , E2 matrix elements, electric quadrupole moments. Comparison with shell model calculations. JOUR PRVCA 80 054302
	2009EK01	NUCLEAR MOMENTS $^{100,102,104}\text{Cd}$; measured electric quadrupole moments of first 2+ states using reorientation method in Coulomb excitation. Comparison with shell model calculations. JOUR PRVCA 80 054302

A=101

^{101}Tc	2010DE01	NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, F)^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
^{101}Rh	2010DE01	NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, F)^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24

KEYNUMBERS AND KEYWORDS

A=102

- ¹⁰²Cd 2009EK01 NUCLEAR REACTIONS ¹⁰⁹Ag(¹⁰⁰Cd, ¹⁰⁰Cd'), E=287.0 MeV; ⁶⁴Zn, ¹⁰⁹Ag(¹⁰²Cd, ¹⁰²Cd'), E=292.7 MeV; ⁶⁴Zn, ¹⁰⁹Ag(¹⁰⁴Cd, ¹⁰⁴Cd'), E=298.7 MeV; measured E γ , I γ , γ (particle)-coin, and γ -ray yields using REX-ISOLDE facility. ⁶⁴Zn, ^{100,102,104}Cd, ¹⁰⁹Ag; deduced levels, J, π , E2 matrix elements, electric quadrupole moments. Comparison with shell model calculations. JOUR PRVCA 80 054302
- 2009EK01 NUCLEAR MOMENTS ^{100,102,104}Cd; measured electric quadrupole moments of first 2+ states using reorientation method in Coulomb excitation. Comparison with shell model calculations. JOUR PRVCA 80 054302

A=103

- ¹⁰³Ru 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ¹⁰³Pd 2008DIZT NUCLEAR REACTIONS ¹⁰²Pd, ¹²⁰Te, ^{130,132}Ba, ¹⁵⁶Dy(n, γ), E \approx 25 keV; measured E γ , I γ ; deduced σ . Compared with MACS30 recommended values. CONF Nice (Nucl Data for Sci and Technol) Proc,P575
- 2010DI01 NUCLEAR REACTIONS ¹⁰²Pd, ¹²⁰Te, ¹³⁰Ba, ¹³²Ba, ¹⁵⁶Dy, ¹⁹⁷Au(n, γ), E=0-120 keV; measured E γ , I γ , Maxwellian-averaged σ by activation technique; deduced reaction rates for p process. Comparison with standard Hauser-Feshbach models and with results from various reaction libraries including ENDF-B / VII.0. JOUR PRVCA 81 015801

A=104

- ¹⁰⁴Tc 2009ALZW RADIOACTIVITY ^{104,105}Tc[from U(p, SF)](β^-); measured E γ , I γ using TAGS (Total Absorption Gamma Spectrometer); deduced spectrum and strength. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P207,Algora
- ¹⁰⁴Ru 2009ALZW RADIOACTIVITY ^{104,105}Tc[from U(p, SF)](β^-); measured E γ , I γ using TAGS (Total Absorption Gamma Spectrometer); deduced spectrum and strength. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P207,Algora
- ¹⁰⁴Pd 2009BE44 RADIOACTIVITY ¹⁰⁴Ag, ¹¹⁰In(EC) [from ¹⁰⁷Ag, ¹¹³In(γ , 3n)]; measured E γ , I γ ; deduced level energies, T_{1/2}, isomeric ratios. Comparison with calculations and TALYS code. JOUR BRSPE 73 1461

KEYNUMBERS AND KEYWORDS

A=104 (continued)

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| ^{104}Ag | 2009BE44 | RADIOACTIVITY ^{104}Ag , $^{110}\text{In}(\text{EC})$ [from ^{107}Ag , $^{113}\text{In}(\gamma, 3n)$]; measured $E\gamma$, $I\gamma$; deduced level energies, $T_{1/2}$, isomeric ratios. Comparison with calculations and TALYS code. JOUR BRSPE 73 1461 |
| ^{104}Cd | 2009EK01 | NUCLEAR REACTIONS $^{109}\text{Ag}(^{100}\text{Cd}, ^{100}\text{Cd}')$, $E=287.0$ MeV; ^{64}Zn , $^{109}\text{Ag}(^{102}\text{Cd}, ^{102}\text{Cd}')$, $E=292.7$ MeV; ^{64}Zn , $^{109}\text{Ag}(^{104}\text{Cd}, ^{104}\text{Cd}')$, $E=298.7$ MeV; measured $E\gamma$, $I\gamma$, $\gamma(\text{particle})\text{-coin}$, and γ -ray yields using REX-ISOLDE facility. ^{64}Zn , $^{100,102,104}\text{Cd}$, ^{109}Ag ; deduced levels, J , π , $E2$ matrix elements, electric quadrupole moments. Comparison with shell model calculations. JOUR PRVCA 80 054302 |
| | 2009EK01 | NUCLEAR MOMENTS $^{100,102,104}\text{Cd}$; measured electric quadrupole moments of first $2+$ states using reorientation method in Coulomb excitation. Comparison with shell model calculations. JOUR PRVCA 80 054302 |

A=105

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| ^{105}Tc | 2009ALZW | RADIOACTIVITY $^{104,105}\text{Tc}$ [from $\text{U}(\text{p}, \text{SF})](\beta^-)$; measured $E\gamma$, $I\gamma$ using TAGS (Total Absorption Gamma Spectrometer); deduced spectrum and strength. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P207,Algora |
| ^{105}Ru | 2009ALZW | RADIOACTIVITY $^{104,105}\text{Tc}$ [from $\text{U}(\text{p}, \text{SF})](\beta^-)$; measured $E\gamma$, $I\gamma$ using TAGS (Total Absorption Gamma Spectrometer); deduced spectrum and strength. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P207,Algora |
| | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, $E=50, 3500$ MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{105}Rh | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, $E=50, 3500$ MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |

A=106

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| ^{106}Ru | 2009SH42 | NUCLEAR REACTIONS $^{12}\text{C}(^{238}\text{U}, \text{X})$, $E=1.45$ GeV; measured $E\gamma$, $I\gamma$ using EXOGAM array, fission fragments using VAMOS detector. ^{134}Xe ; deduced levels, J , π . ^{100}Zr , $^{106,107,108,109}\text{Ru}$, ^{133}Xe , ^{138}Xe ; measured $E\gamma$. Comparison with shell model calculations for $Z>49$, $N<83$ nuclei. JOUR PRVCA 80 051305 |
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KEYNUMBERS AND KEYWORDS

A=106 (continued)

¹⁰⁶Cd 2010ZU02 RADIOACTIVITY ^{106,114,116}Cd, ^{120,128,130}Te, ⁶⁴Zn(2β); measured E_e, I_e; deduced T_{1/2}. JOUR PPNPD 64 267

A=107

¹⁰⁷Ru 2009SH42 NUCLEAR REACTIONS ¹²C(²³⁸U, X), E=1.45 GeV; measured E_γ, I_γ using EXOGAM array, fission fragments using VAMOS detector. ¹³⁴Xe; deduced levels, J, π. ¹⁰⁰Zr, ^{106,107,108,109}Ru, ¹³³Xe, ¹³⁸Xe; measured E_γ. Comparison with shell model calculations for Z>49, N<83 nuclei. JOUR PRVCA 80 051305

¹⁰⁷Ag 2009PEZY NUCLEAR REACTIONS ⁹⁶Mo(⁸⁸Sr, 2n), E=351 MeV; measured E_γ, I_γ, γγ-coin.; deduced decay curves of yrast transitions, quadrupole moments; ¹⁰⁷Ag(¹⁸⁴Hg, ¹⁸⁴Hg'), E=2.85 MeV / nucleon; ¹²⁰Sn(¹⁸⁴Hg, ¹⁸⁴Hg'), E=2.85 MeV / nucleon; ¹⁰⁷Ag(¹⁸⁶Hg, ¹⁸⁶Hg'), E=2.85 MeV / nucleon; ¹²⁰Sn(¹⁸⁶Hg, ¹⁸⁶Hg'), E=2.85 MeV / nucleon; ¹⁰⁷Ag(¹⁸⁸Hg, ¹⁸⁸Hg'), E=2.85 MeV / nucleon; ¹²⁰Sn(¹⁸⁸Hg, ¹⁸⁸Hg'), E=2.85 MeV / nucleon; measured E_γ, I_γ, particle-γ-coin. Plunger device with JUROGAM + RITU + GREAT, matrix E2 elements to be extracted. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P414,Petts

A=108

¹⁰⁸Ru 2009SH42 NUCLEAR REACTIONS ¹²C(²³⁸U, X), E=1.45 GeV; measured E_γ, I_γ using EXOGAM array, fission fragments using VAMOS detector. ¹³⁴Xe; deduced levels, J, π. ¹⁰⁰Zr, ^{106,107,108,109}Ru, ¹³³Xe, ¹³⁸Xe; measured E_γ. Comparison with shell model calculations for Z>49, N<83 nuclei. JOUR PRVCA 80 051305

2010LUZZ RADIOACTIVITY ²⁵²Cf(SF); ^{108,110,112}Ru; measured E_γ, I_γ, γγγ-coin.; deduced level schemes, mixing ratios, bands, J, π, angular correlations, level energies, corrected values for γ-cascade in ¹¹⁰Ru. PC J H. Hamilton,2/11/2010

A=109

¹⁰⁹Ru 2009SH42 NUCLEAR REACTIONS ¹²C(²³⁸U, X), E=1.45 GeV; measured E_γ, I_γ using EXOGAM array, fission fragments using VAMOS detector. ¹³⁴Xe; deduced levels, J, π. ¹⁰⁰Zr, ^{106,107,108,109}Ru, ¹³³Xe, ¹³⁸Xe; measured E_γ. Comparison with shell model calculations for Z>49, N<83 nuclei. JOUR PRVCA 80 051305

¹⁰⁹Ag 2009EK01 NUCLEAR REACTIONS ¹⁰⁹Ag(¹⁰⁰Cd, ¹⁰⁰Cd'), E=287.0 MeV; ⁶⁴Zn, ¹⁰⁹Ag(¹⁰²Cd, ¹⁰²Cd'), E=292.7 MeV; ⁶⁴Zn, ¹⁰⁹Ag(¹⁰⁴Cd, ¹⁰⁴Cd'), E=298.7 MeV; measured E_γ, I_γ, γ(particle)-coin, and γ-ray yields using REX-ISOLDE facility. ⁶⁴Zn, ^{100,102,104}Cd, ¹⁰⁹Ag; deduced levels, J, π, E2 matrix elements, electric quadrupole moments. Comparison with shell model calculations. JOUR PRVCA 80 054302

KEYNUMBERS AND KEYWORDS

A=109 (continued)

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| 2009MUZW | NUCLEAR REACTIONS $^{12}\text{C}(^{88}\text{Kr}, ^{88}\text{Kr}')$, E not given; $^{109}\text{Ag}(^{92}\text{Kr}, ^{92}\text{Kr}')$, E not given; measured Coulomb excitation $E\gamma$, $I\gamma$; deduced $^{88,92}\text{Kr}$ B(E2). ^{92}Kr B(E2) in contrast to what was supposed. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P587,Mucher |
| ^{109}In 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |

A=110

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| ^{110}Ru 2010LUZZ | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; $^{108,110,112}\text{Ru}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, corrected values for γ -cascade in ^{110}Ru . PC J H. Hamilton,2/11/2010 |
| ^{110}Cd 2009BE44 | RADIOACTIVITY ^{104}Ag , $^{110}\text{In}(\text{EC})$ [from ^{107}Ag , $^{113}\text{In}(\gamma, 3n)$]; measured $E\gamma$, $I\gamma$; deduced level energies, $T_{1/2}$, isomeric ratios. Comparison with calculations and TALYS code. JOUR BRSPE 73 1461 |
| ^{110}In 2009BE44 | RADIOACTIVITY ^{104}Ag , $^{110}\text{In}(\text{EC})$ [from ^{107}Ag , $^{113}\text{In}(\gamma, 3n)$]; measured $E\gamma$, $I\gamma$; deduced level energies, $T_{1/2}$, isomeric ratios. Comparison with calculations and TALYS code. JOUR BRSPE 73 1461 |

A=111

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| ^{111}Pd 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{111}Ag 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge} / ^{82}\text{Br} / ^{85}\text{Kr} / ^{85}\text{Sr} / ^{85}\text{Y} / ^{87}\text{Kr} / ^{87}\text{Sr} / ^{87}\text{Y} / ^{88}\text{Kr} / ^{91}\text{Sr} / ^{91}\text{Y} / ^{92}\text{Sr} / ^{92}\text{Y} / ^{93}\text{Y} / ^{93}\text{Mo} / ^{93}\text{Tc} / ^{95}\text{Zr} / ^{95}\text{Nb} / ^{95}\text{Tc} / ^{96}\text{Nb} / ^{97}\text{Zr} / ^{97}\text{Nb} / ^{99}\text{Mo} / ^{99}\text{Tc} / ^{99}\text{Rh} / ^{101}\text{Tc} / ^{101}\text{Rh} / ^{103}\text{Ru} / ^{105}\text{Ru} / ^{105}\text{Rh} / ^{109}\text{In} / ^{111}\text{Pd} / ^{111}\text{Ag} / ^{112}\text{Pd} / ^{112}\text{Ag} / ^{113}\text{Ag} / ^{115}\text{Ag} / ^{115}\text{Cd} / ^{117}\text{Cd} / ^{117}\text{In}$, E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |

KEYNUMBERS AND KEYWORDS

A=112

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| ^{112}Ru | 2010LUZZ | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; $^{108,110,112}\text{Ru}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, corrected values for γ -cascade in ^{110}Ru . PC J H. Hamilton,2/11/2010 |
| ^{112}Pd | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge}$ / ^{82}Br / ^{85}Kr / ^{85}Sr / ^{85}Y / ^{87}Kr / ^{87}Sr / ^{87}Y / ^{88}Kr / ^{91}Sr / ^{91}Y / ^{92}Sr / ^{92}Y / ^{93}Y / ^{93}Mo / ^{93}Tc / ^{95}Zr / ^{95}Nb / ^{95}Tc / ^{96}Nb / ^{97}Zr / ^{97}Nb / ^{99}Mo / ^{99}Tc / ^{99}Rh / ^{101}Tc / ^{101}Rh / ^{103}Ru / ^{105}Ru / ^{105}Rh / ^{109}In / ^{111}Pd / ^{111}Ag / ^{112}Pd / ^{112}Ag / ^{113}Ag / ^{115}Ag / ^{115}Cd / ^{117}Cd / ^{117}In , E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{112}Ag | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge}$ / ^{82}Br / ^{85}Kr / ^{85}Sr / ^{85}Y / ^{87}Kr / ^{87}Sr / ^{87}Y / ^{88}Kr / ^{91}Sr / ^{91}Y / ^{92}Sr / ^{92}Y / ^{93}Y / ^{93}Mo / ^{93}Tc / ^{95}Zr / ^{95}Nb / ^{95}Tc / ^{96}Nb / ^{97}Zr / ^{97}Nb / ^{99}Mo / ^{99}Tc / ^{99}Rh / ^{101}Tc / ^{101}Rh / ^{103}Ru / ^{105}Ru / ^{105}Rh / ^{109}In / ^{111}Pd / ^{111}Ag / ^{112}Pd / ^{112}Ag / ^{113}Ag / ^{115}Ag / ^{115}Cd / ^{117}Cd / ^{117}In , E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| ^{112}Sn | 2010KU07 | NUCLEAR REACTIONS ^{112}Sn , $^{116}\text{Sn}(^{58}\text{Ni}, ^{58}\text{Ni})$, E=175 MeV; measured $E\gamma$, $I\gamma$, and scattered particle spectra. $^{112,116}\text{Sn}$; deduced B(E2). Systematics of first 2+ energies and associated B(E2) values for 102,104,106,108,110,112,114,116,118,120,122,124,126,128,130Sn Comparison with relativistic quasiparticle random-phase approximation (RQRPA) and large-scale shell model calculations. JOUR PRVCA 81 024306 |

A=113

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|-------------------|----------|--|
| ^{113}Ag | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge}$ / ^{82}Br / ^{85}Kr / ^{85}Sr / ^{85}Y / ^{87}Kr / ^{87}Sr / ^{87}Y / ^{88}Kr / ^{91}Sr / ^{91}Y / ^{92}Sr / ^{92}Y / ^{93}Y / ^{93}Mo / ^{93}Tc / ^{95}Zr / ^{95}Nb / ^{95}Tc / ^{96}Nb / ^{97}Zr / ^{97}Nb / ^{99}Mo / ^{99}Tc / ^{99}Rh / ^{101}Tc / ^{101}Rh / ^{103}Ru / ^{105}Ru / ^{105}Rh / ^{109}In / ^{111}Pd / ^{111}Ag / ^{112}Pd / ^{112}Ag / ^{113}Ag / ^{115}Ag / ^{115}Cd / ^{117}Cd / ^{117}In , E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
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A=114

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| ^{114}Cd | 2010ZU02 | RADIOACTIVITY $^{106,114,116}\text{Cd}$, $^{120,128,130}\text{Te}$, $^{64}\text{Zn}(2\beta)$; measured E_e , I_e ; deduced $T_{1/2}$. JOUR PPNPD 64 267 |
| ^{114}In | 2009WA22 | RADIOACTIVITY $^{114}\text{In}(\beta^-)$; measured β spectra, $\beta(\theta, \text{T}, \text{H})$, and ce; using low-temperature nuclear orientation technique; deduced β -asymmetry parameter. Comparison with GEANT4-based simulation code and predictions of Standard model. JOUR PRVCA 80 062501 |
| ^{114}Sn | 2009WA22 | RADIOACTIVITY $^{114}\text{In}(\beta^-)$; measured β spectra, $\beta(\theta, \text{T}, \text{H})$, and ce; using low-temperature nuclear orientation technique; deduced β -asymmetry parameter. Comparison with GEANT4-based simulation code and predictions of Standard model. JOUR PRVCA 80 062501 |

A=115

- ¹¹⁵Ru 2010KU01 RADIOACTIVITY ¹¹⁵Ru(β^-) [from ²³⁸U(p, F)¹¹⁵Ru, E=25 MeV]; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced energy levels, gamma transitions, T_{1/2}. JYFLTRAP Penning trap system. JOUR APOBB 41 469
- ¹¹⁵Rh 2010KU01 RADIOACTIVITY ¹¹⁵Ru(β^-) [from ²³⁸U(p, F)¹¹⁵Ru, E=25 MeV]; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced energy levels, gamma transitions, T_{1/2}. JYFLTRAP Penning trap system. JOUR APOBB 41 469
- ¹¹⁵Ag 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ¹¹⁵Cd 2010DE01 NUCLEAR REACTIONS ²³²Th(γ , F)⁷⁷Ge / ⁸²Br / ⁸⁵Kr / ⁸⁵Sr / ⁸⁵Y / ⁸⁷Kr / ⁸⁷Sr / ⁸⁷Y / ⁸⁸Kr / ⁹¹Sr / ⁹¹Y / ⁹²Sr / ⁹²Y / ⁹³Y / ⁹³Mo / ⁹³Tc / ⁹⁵Zr / ⁹⁵Nb / ⁹⁵Tc / ⁹⁶Nb / ⁹⁷Zr / ⁹⁷Nb / ⁹⁹Mo / ⁹⁹Tc / ⁹⁹Rh / ¹⁰¹Tc / ¹⁰¹Rh / ¹⁰³Ru / ¹⁰⁵Ru / ¹⁰⁵Rh / ¹⁰⁹In / ¹¹¹Pd / ¹¹¹Ag / ¹¹²Pd / ¹¹²Ag / ¹¹³Ag / ¹¹⁵Ag / ¹¹⁵Cd / ¹¹⁷Cd / ¹¹⁷In, E=50, 3500 MeV; measured E γ , I γ ; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24
- ¹¹⁵Sn 2009UT01 NUCLEAR REACTIONS ^{116,117}Sn(γ , n), E=6.80-13.5 MeV; measured neutron spectra and σ using incident beam of laser Compton-scattered (LCS) photons. Comparisons of E1 γ -ray strength functions with previous experimental results and calculations using Hartree-Fock-Bogoliubov plus quasiparticle random-phase approximation (HFB+QRPA) models. JOUR PRVCA 80 055806
- 2009UTZX NUCLEAR REACTIONS ^{116,117}Sn(γ , n), E \approx threshold-17 MeV; measured σ , photon strength functions; calculated σ , photon strength functions using HFB+QRPA, HFB+QRPA+Pygmy resonance, Lorentzian; deduced low-energy resonance behavior. Calculations compared to own data and to EXFOR ones. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P637,Utsunomiya

A=116

- ¹¹⁶Ag 2009BA52 RADIOACTIVITY ^{116,116m}Ag(β^-) [from ²³⁸U(p, X), E not given]; measured E γ , I γ , $\gamma\gamma$ -coin, ce, and half-lives using HRIBF facility. ¹¹⁶Ag, ¹¹⁶Cd; deduced levels, J, π , conversion coefficients, multipolarities, logft, and BE2 rates. Comparisons with IBM-2 calculations, and with low-energy 0+ and 2+ level systematics of ^{110,112,114,116,118,120}Cd. JOUR PRVCA 80 054318
- ¹¹⁶Cd 2009BA52 RADIOACTIVITY ^{116,116m}Ag(β^-) [from ²³⁸U(p, X), E not given]; measured E γ , I γ , $\gamma\gamma$ -coin, ce, and half-lives using HRIBF facility. ¹¹⁶Ag, ¹¹⁶Cd; deduced levels, J, π , conversion coefficients, multipolarities, logft, and BE2 rates. Comparisons with IBM-2 calculations, and with low-energy 0+ and 2+ level systematics of ^{110,112,114,116,118,120}Cd. JOUR PRVCA 80 054318

KEYNUMBERS AND KEYWORDS

A=116 (continued)

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| | 2010SI06 | RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 270 |
| | 2010ZU02 | RADIOACTIVITY $^{106,114,116}\text{Cd}$, $^{120,128,130}\text{Te}$, $^{64}\text{Zn}(2\beta)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 267 |
| ^{116}Sn | 2009UT01 | NUCLEAR REACTIONS $^{116,117}\text{Sn}(\gamma, n)$, E=6.80-13.5 MeV; measured neutron spectra and σ using incident beam of laser Compton-scattered (LCS) photons. Comparisons of E1 γ -ray strength functions with previous experimental results and calculations using Hartree-Fock-Bogoliubov plus quasiparticle random-phase approximation (HFB+QRPA) models. JOUR PRVCA 80 055806 |
| | 2009UTZX | NUCLEAR REACTIONS $^{116,117}\text{Sn}(\gamma, n)$, E \approx threshold-17 MeV; measured σ , photon strength functions; calculated σ , photon strength functions using HFB+QRPA, HFB+QRPA+Pygmy resonance, Lorentzian; deduced low-energy resonance behavior. Calculations compared to own data and to EXFOR ones. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P637,Utsunomiya |
| | 2010HU02 | NUCLEAR REACTIONS $^{237}\text{Np}(^{116}\text{Sn}, ^{118}\text{Sn})^{235}\text{Np}$, E=801 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (particle) γ -, (fragment)(fragment) γ -coin, and angular distribution of γ -ray yields for ^{116}Sn , ^{117}Sn and ^{118}Sn using the Gammasphere and CHICO arrays. ^{235}Np ; deduced levels, J, π , bands, angular momentum, moment of inertia as functions of rotational frequency, configurations. $^{116,117,118}\text{Sn}$; measured $E\gamma$, $\gamma\gamma$ -coin. Comparison with cranked shell-model calculations and with alignment plots for ^{237}Np and ^{241}Am . JOUR PRVCA 81 014312 |
| | 2010KU07 | NUCLEAR REACTIONS ^{112}Sn , $^{116}\text{Sn}(^{58}\text{Ni}, ^{58}\text{Ni})$, E=175 MeV; measured $E\gamma$, $I\gamma$, and scattered particle spectra. $^{112,116}\text{Sn}$; deduced B(E2). Systematics of first 2+ energies and associated B(E2) values for 102,104,106,108,110,112,114,116,118,120,122,124,126,128,130Sn Comparison with relativistic quasiparticle random-phase approximation (RQRPA) and large-scale shell model calculations. JOUR PRVCA 81 024306 |
| | 2010SI06 | RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 270 |
| ^{116}Sb | 2009YAZS | NUCLEAR REACTIONS $^{113}\text{In}(\alpha, \gamma)$, E(cm)=8.69-13.66 MeV; $^{113}\text{In}(\alpha, n)$, E(cm)=8.69-13.66 MeV; measured $^{116,117}\text{Sb}$ $E\gamma$, $I\gamma$; deduced σ , S-factor; calculated σ , S-factor using NON-SMOKER code. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P631,Yalcin |

A=117

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| ^{117}Cd | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, F)^{77}\text{Ge}$ / ^{82}Br / ^{85}Kr / ^{85}Sr / ^{85}Y / ^{87}Kr / ^{87}Sr / ^{87}Y / ^{88}Kr / ^{91}Sr / ^{91}Y / ^{92}Sr / ^{92}Y / ^{93}Y / ^{93}Mo / ^{93}Tc / ^{95}Zr / ^{95}Nb / ^{95}Tc / ^{96}Nb / ^{97}Zr / ^{97}Nb / ^{99}Mo / ^{99}Tc / ^{99}Rh / ^{101}Tc / ^{101}Rh / ^{103}Ru / ^{105}Ru / ^{105}Rh / ^{109}In / ^{111}Pd / ^{111}Ag / ^{112}Pd / ^{112}Ag / ^{113}Ag / ^{115}Ag / ^{115}Cd / ^{117}Cd / ^{117}In , E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
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KEYNUMBERS AND KEYWORDS

A=117 (continued)

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| | 2010RE01 | RADIOACTIVITY $^{121m,123m}\text{In(IT)}$, $^{125m}\text{Sb(IT)}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced levels, J, π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured $E\gamma$. JOUR PRVCA 81 014301 |
| ^{117}In | 2010DE01 | NUCLEAR REACTIONS $^{232}\text{Th}(\gamma, \text{F})^{77}\text{Ge}$ / ^{82}Br / ^{85}Kr / ^{85}Sr / ^{85}Y / ^{87}Kr / ^{87}Sr / ^{87}Y / ^{88}Kr / ^{91}Sr / ^{91}Y / ^{92}Sr / ^{92}Y / ^{93}Y / ^{93}Mo / ^{93}Tc / ^{95}Zr / ^{95}Nb / ^{95}Tc / ^{96}Nb / ^{97}Zr / ^{97}Nb / ^{99}Mo / ^{99}Tc / ^{99}Rh / ^{101}Tc / ^{101}Rh / ^{103}Ru / ^{105}Ru / ^{105}Rh / ^{109}In / ^{111}Pd / ^{111}Ag / ^{112}Pd / ^{112}Ag / ^{113}Ag / ^{115}Ag / ^{115}Cd / ^{117}Cd / ^{117}In , E=50, 3500 MeV; measured $E\gamma$, $I\gamma$; deduced yield of fission fragments, symmetric contribution high-energy fission component. JOUR PANUE 73 24 |
| | 2010RE01 | RADIOACTIVITY $^{121m,123m}\text{In(IT)}$, $^{125m}\text{Sb(IT)}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced levels, J, π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured $E\gamma$. JOUR PRVCA 81 014301 |
| ^{117}Sn | 2008NIZU | NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(n, \gamma)$, E=10-100 keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615 |
| | 2010HU02 | NUCLEAR REACTIONS $^{237}\text{Np}(^{116}\text{Sn}, ^{118}\text{Sn})^{235}\text{Np}$, E=801 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (particle) γ -, (fragment)(fragment) γ -coin, and angular distribution of γ -ray yields for ^{116}Sn , ^{117}Sn and ^{118}Sn using the Gammasphere and CHICO arrays. ^{235}Np ; deduced levels, J, π , bands, angular momentum, moment of inertia as functions of rotational frequency, configurations. $^{116,117,118}\text{Sn}$; measured $E\gamma$, $\gamma\gamma$ -coin. Comparison with cranked shell-model calculations and with alignment plots for ^{237}Np and ^{241}Am . JOUR PRVCA 81 014312 |
| ^{117}Sb | 2009YAZS | NUCLEAR REACTIONS $^{113}\text{In}(\alpha, \gamma)$, E(cm)=8.69-13.66 MeV; $^{113}\text{In}(\alpha, n)$, E(cm)=8.69-13.66 MeV; measured $^{116,117}\text{Sb}$ $E\gamma$, $I\gamma$; deduced σ , S-factor; calculated σ , S-factor using NON-SMOKER code. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P631,Yalcin |

A=118

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| ^{118}Sn | 2008NIZU | NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(n, \gamma)$, E=10-100 keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615 |
| | 2010HU02 | NUCLEAR REACTIONS $^{237}\text{Np}(^{116}\text{Sn}, ^{118}\text{Sn})^{235}\text{Np}$, E=801 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (particle) γ -, (fragment)(fragment) γ -coin, and angular distribution of γ -ray yields for ^{116}Sn , ^{117}Sn and ^{118}Sn using the Gammasphere and CHICO arrays. ^{235}Np ; deduced levels, J, π , bands, angular momentum, moment of inertia as functions of rotational frequency, configurations. $^{116,117,118}\text{Sn}$; measured $E\gamma$, $\gamma\gamma$ -coin. Comparison with cranked shell-model calculations and with alignment plots for ^{237}Np and ^{241}Am . JOUR PRVCA 81 014312 |

KEYNUMBERS AND KEYWORDS

A=118 (continued)

2010WA05 NUCLEAR REACTIONS $^{116}\text{Cd}(^7\text{Li}, 4\text{np})$, E=50 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin. ^{118}Sn ; deduced levels, J, π , bands and configurations. Comparison with Total Routhian surface (TRS) calculations and fixed constrained triaxial relativistic mean-field (RMF) theory. JOUR PRVCA 81 017301

A=119

^{119}Sn 2008NIZU NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(n, \gamma)$, E=10-100 keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615

2010RE01 NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, X)$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301

A=120

^{120}Sn 2008NIZU NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(n, \gamma)$, E=10-100 keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615

2009PEZY NUCLEAR REACTIONS $^{96}\text{Mo}(^{88}\text{Sr}, 2n)$, E=351 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced decay curves of yrast transitions, quadrupole moments; $^{107}\text{Ag}(^{184}\text{Hg}, ^{184}\text{Hg}')$, E=2.85 MeV / nucleon; $^{120}\text{Sn}(^{184}\text{Hg}, ^{184}\text{Hg}')$, E=2.85 MeV / nucleon; $^{107}\text{Ag}(^{186}\text{Hg}, ^{186}\text{Hg}')$, E=2.85 MeV / nucleon; $^{120}\text{Sn}(^{186}\text{Hg}, ^{186}\text{Hg}')$, E=2.85 MeV / nucleon; $^{107}\text{Ag}(^{188}\text{Hg}, ^{188}\text{Hg}')$, E=2.85 MeV / nucleon; $^{120}\text{Sn}(^{188}\text{Hg}, ^{188}\text{Hg}')$, E=2.85 MeV / nucleon; measured $E\gamma$, $I\gamma$, particle- γ -coin. Plunger device with JUROGAM + RITU + GREAT, matrix E2 elements to be extracted. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P414, Petts

2009WAZW NUCLEAR REACTIONS ^{77}Se , ^{99}Ru , ^{101}Ru , $^{123}\text{Te}(n, \alpha)$, E=thermal; measured $E\alpha$, $I\alpha$; deduced E, J, π . CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P84, Wagemans

2010RE01 NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, X)$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301

^{120}Te 2010ZU02 RADIOACTIVITY $^{106,114,116}\text{Cd}$, $^{120,128,130}\text{Te}$, $^{64}\text{Zn}(2\beta)$; measured Ee , Ie ; deduced $T_{1/2}$. JOUR PPNPD 64 267

KEYNUMBERS AND KEYWORDS

A=121

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| ^{121}In | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| | 2010RE01 | RADIOACTIVITY $^{121m,123m}\text{In}(\text{IT})$, $^{125m}\text{Sb}(\text{IT})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced levels, J, π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured $E\gamma$. JOUR PRVCA 81 014301 |
| ^{121}Sn | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{121}Te | 2008DIZT | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , $^{130,132}\text{Ba}$, $^{156}\text{Dy}(\text{n}, \gamma)$, E \approx 25 keV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with MACS30 recommended values. CONF Nice (Nucl Data for Sci and Technol) Proc,P575 |
| | 2009ZH37 | NUCLEAR REACTIONS ^{93}Nb , $^{122,128}\text{Te}(\text{n}, 2\text{n})^{92m}\text{Nb}$ / ^{121}Te / ^{121m}Te / ^{127}Te / ^{127m}Te / , E=14 MeV; measured $E\gamma$, $I\gamma$ and σ by activation method relative to that for $^{93}\text{Nb}(\text{n}, 2\text{n})^{92m}\text{Nb}$ reaction; analyzed σ for ^{121g}Te and ^{127g}Te by considering effects of population of isomeric states. JOUR PRVCA 80 054615 |
| | 2010DI01 | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , ^{130}Ba , ^{132}Ba , ^{156}Dy , $^{197}\text{Au}(\text{n}, \gamma)$, E=0-120 keV; measured $E\gamma$, $I\gamma$, Maxwellian-averaged σ by activation technique; deduced reaction rates for p process. Comparison with standard Hauser-Feshbach models and with results from various reaction libraries including ENDF-B / VII.0. JOUR PRVCA 81 015801 |

A=122

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| ^{122}In | 2009MAZL | RADIOACTIVITY $^{63}\text{Mn}(\beta^-)$ [from $\text{U}(\text{p}, \text{f})$, E=1.4 GeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{63}Fe E, J, π , isomer decay, $T_{1/2}$, B(M1); $^{122}\text{In}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{f})$, E=30 MeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{122}Sn E, J, π , $T_{1/2}$, B(E2), ground-state multiplet. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P502,Mach |
| ^{122}Sn | 2009MAZL | RADIOACTIVITY $^{63}\text{Mn}(\beta^-)$ [from $\text{U}(\text{p}, \text{f})$, E=1.4 GeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{63}Fe E, J, π , isomer decay, $T_{1/2}$, B(M1); $^{122}\text{In}(\beta^-)$ [from $^{238}\text{U}(\text{p}, \text{f})$, E=30 MeV]; measured $E\gamma$, $I\gamma$, $t(\gamma)$, $\gamma\gamma$ -coin., $E\beta$, $\beta\gamma$ -coin.; deduced ^{122}Sn E, J, π , $T_{1/2}$, B(E2), ground-state multiplet. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P502,Mach |

KEYNUMBERS AND KEYWORDS

A=122 (continued)

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| 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{122}Te | 2010KU02 RADIOACTIVITY ^{205}Hg , $^{207}\text{Tl}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=750 MeV / nucleon]; ^{140}Pr , ^{142}Pm , $^{122}\text{I}(\text{EC})$ [from $\text{Be}(^{152}\text{Sm}, \text{X})$, E=508 MeV / nucleon]; measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525 |
| ^{122}I | 2010KU02 RADIOACTIVITY ^{205}Hg , $^{207}\text{Tl}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=750 MeV / nucleon]; ^{140}Pr , ^{142}Pm , $^{122}\text{I}(\text{EC})$ [from $\text{Be}(^{152}\text{Sm}, \text{X})$, E=508 MeV / nucleon]; measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525 |
| ^{122}Ba | 2009BIZY NUCLEAR REACTIONS $^{108}\text{Cd}(^{16}\text{O}, 2n)$, E=64, 65 MeV; $^{112}\text{Sn}(^{13}\text{C}, 2n)$, E=59 MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; deduced E, J, π , rotational bands, yrast γ -cascade, B(E2), half-life of individual states; calculated B(E2) using X(5) model and SU(3) limit of IBA. Compared together. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P352,Bizzeti |

A=123

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| ^{123}Ag | 2010LI02 ATOMIC MASSES $^{85,86}\text{As}$, ^{89}Se , ^{123}Ag , ^{138}Te , $^{140,141}\text{I}$, ^{143}Xe , $^{221,222}\text{At}$, ^{223}Rn , ^{228}Fr , ^{231}Ra ; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511 |
| ^{123}In | 2010RE01 NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| | 2010RE01 RADIOACTIVITY $^{121m,123m}\text{In}(\text{IT})$, $^{125m}\text{Sb}(\text{IT})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced levels, J, π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured $E\gamma$. JOUR PRVCA 81 014301 |
| ^{123}Sn | 2010RE01 NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |

KEYNUMBERS AND KEYWORDS

A=123 (continued)

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|-------------------|----------|--|
| ^{123}Sb | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{123}Ba | 2009BIZY | NUCLEAR REACTIONS $^{108}\text{Cd}(^{16}\text{O}, 2\text{n})$, E=64, 65 MeV; $^{112}\text{Sn}(^{13}\text{C}, 2\text{n})$, E=59 MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; deduced E, J, π , rotational bands, yrast γ -cascade, B(E2), half-life of individual states; calculated B(E2) using X(5) model and SU(3) limit of IBA. Compared together. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P352,Bizzeti |

A=124

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| ^{124}Sn | 2009ENZY | NUCLEAR REACTIONS ^{124}Sn , $^{140}\text{Ce}(\alpha, \alpha'\gamma)$, E=136 MeV; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin.; deduced σ , B(E1). Compared to (γ , γ') reactions. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P357,Endres |
| | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{124}Te | 2009CH59 | NUCLEAR REACTIONS ^{125}Te , $^{126}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, $\gamma(\text{particle})$ -coin, $\gamma\gamma(\theta)$, and g factor. ^{125}Te ; deduced levels, J, π , mixing ratios. Comparison with shell model and weak-coupling model calculations. ^{124}Te , ^{128}Te , $^{130}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured $E\gamma$. JOUR PRVCA 80 054301 |
| ^{124}Xe | 2010RA05 | NUCLEAR REACTIONS $^{12}\text{C}(^{124}\text{Xe}, ^{124}\text{Xe}')$, E=394 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using DSA technique and the Gammasphere array. ^{124}Xe ; deduced levels, J, π , B(E2). Comparison with interacting boson model. JOUR PYLBB 683 11 |

A=125

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| ^{125}Sn | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
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KEYNUMBERS AND KEYWORDS

A=125 (continued)

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| ^{125}Sb | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| | 2010RE01 | RADIOACTIVITY $^{121m,123m}\text{In}(\text{IT})$, $^{125m}\text{Sb}(\text{IT})$; measured E_γ , I_γ , $\gamma\gamma$ -coin; deduced levels, J, π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured E_γ . JOUR PRVCA 81 014301 |
| ^{125}Te | 2009CH59 | NUCLEAR REACTIONS ^{125}Te , $^{126}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured E_γ , I_γ , $\gamma\gamma$ -, $\gamma(\text{particle})$ -coin, $\gamma\gamma(\theta)$, and g factor. ^{125}Te ; deduced levels, J, π , mixing ratios. Comparison with shell model and weak-coupling model calculations. ^{124}Te , ^{128}Te , $^{130}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured E_γ . JOUR PRVCA 80 054301 |
| | 2009CH59 | NUCLEAR MOMENTS ^{125}Te ; measured g-factors of excited states using transient field technique in Coulomb excitation. ^{126}Te ; used as a reference. Comparison with shell model and weak-coupling model calculations. JOUR PRVCA 80 054301 |

A=126

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| ^{126}Sn | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{126}Te | 2009CH59 | NUCLEAR REACTIONS ^{125}Te , $^{126}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured E_γ , I_γ , $\gamma\gamma$ -, $\gamma(\text{particle})$ -coin, $\gamma\gamma(\theta)$, and g factor. ^{125}Te ; deduced levels, J, π , mixing ratios. Comparison with shell model and weak-coupling model calculations. ^{124}Te , ^{128}Te , $^{130}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured E_γ . JOUR PRVCA 80 054301 |
| | 2009CH59 | NUCLEAR MOMENTS ^{125}Te ; measured g-factors of excited states using transient field technique in Coulomb excitation. ^{126}Te ; used as a reference. Comparison with shell model and weak-coupling model calculations. JOUR PRVCA 80 054301 |

KEYNUMBERS AND KEYWORDS

A=127

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|-------------------|----------|--|
| ^{127}Sn | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{127}Sb | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{127}Te | 2009ZH37 | NUCLEAR REACTIONS ^{93}Nb , $^{122,128}\text{Te}(n, 2n)^{92m}\text{Nb}$ / ^{121}Te / ^{121m}Te / ^{127}Te / ^{127m}Te / , E=14 MeV; measured $E\gamma$, $I\gamma$ and σ by activation method relative to that for $^{93}\text{Nb}(n, 2n)^{92m}\text{Nb}$ reaction; analyzed σ for ^{121g}Te and ^{127g}Te by considering effects of population of isomeric states. JOUR PRVCA 80 054615 |
| ^{127}I | 2009MA70 | NUCLEAR REACTIONS $^{13}\text{C}(\alpha, \gamma)$, (α, n) , E=2.000, 2.270 MeV; measured $E\gamma$, $I\gamma$, $\gamma(\theta)$, En, σ , and $\sigma(\theta)$; deduced astrophysical S factors. Comparison with previous experimental data. ^{27}Al , ^{127}I , $^{206,207,208}\text{Pb}(n, n')$, E=3.5-4.4 MeV; $^{127}\text{I}(n, \gamma)$, E=10.1-11.3 MeV; measured $E\gamma$. JOUR PRVCA 80 065802 |
| ^{127}Ce | 2009PA40 | NUCLEAR REACTIONS $^{100}\text{Mo}(^{32}\text{S}, 5n)$, $(^{34}\text{S}, 5n)$, E=155 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Euroball and Eurogam arrays. $^{127,129}\text{Ce}$; deduced levels, J, π , bands, and configurations. Comparison with cranked Woods-Saxon calculations, and with systematics of light odd-N cerium nuclei. JOUR PRVCA 80 054312 |

A=128

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| ^{128}Sb | 2010RE01 | RADIOACTIVITY $^{121m,123m}\text{In}(\text{IT})$, $^{125m}\text{Sb}(\text{IT})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced levels, J, π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured $E\gamma$. JOUR PRVCA 81 014301 |
| ^{128}Te | 2009CH59 | NUCLEAR REACTIONS ^{125}Te , $^{126}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, $\gamma(\text{particle})$ -coin, $\gamma\gamma(\theta)$, and g factor. ^{125}Te ; deduced levels, J, π , mixing ratios. Comparison with shell model and weak-coupling model calculations. ^{124}Te , ^{128}Te , $^{130}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, E=195 MeV; measured $E\gamma$. JOUR PRVCA 80 054301 |

KEYNUMBERS AND KEYWORDS

A=128 (*continued*)

- 2010DA03 NUCLEAR REACTIONS $^{238}\text{U}(^{18}\text{O}, \text{F})\text{Sr} / \text{Zr} / \text{Mo} / \text{Ru} / \text{Pd} / \text{Cd} / \text{Sn} / \text{Te} / \text{Xe} / \text{Ba} / \text{Ce} / \text{Nd} / \text{Sm}$, $E=100$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, fission fragment mass distribution and yields of Sr ($A=90-96$), Zr ($A=96-102$), Mo ($A=98-108$), Ru ($A=104-112$), Pd ($A=108-116$), Cd ($A=114-122$), Sn ($A=116-128$), Te ($A=124-134$), Xe ($A=130-138$), Ba ($A=136-144$), Ce ($A=142-148$), Nd ($A=146-152$) and Sm ($A=150-158$) using INGA array. Discussed effect of nuclear structure in the dynamical evolution of fissioning nucleus. ^{128}Te ; measured $E\gamma$ and $\gamma\gamma$ -coin. JOUR PRVCA 81 014311
- 2010RE01 RADIOACTIVITY $^{121m,123m}\text{In}(\text{IT})$, $^{125m}\text{Sb}(\text{IT})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin; deduced levels, J , π . ^{117}Cd , $^{128}\text{Sb}(\beta^-)$; measured $E\gamma$. JOUR PRVCA 81 014301
- 2010ZU02 RADIOACTIVITY $^{106,114,116}\text{Cd}$, $^{120,128,130}\text{Te}$, $^{64}\text{Zn}(2\beta)$; measured Ee , Ie ; deduced $T_{1/2}$. JOUR PPNPD 64 267
- ^{128}I 2008RAZZ NUCLEAR REACTIONS $^{129}\text{I}(\gamma, n)$, $E\approx 0-30$ MeV; measured $E\gamma$, $I\gamma$; deduced ^{128}I σ , yield. CONF Nice (Nucl Data for Sci and Technol) Proc,P529
- 2009MA70 NUCLEAR REACTIONS $^{13}\text{C}(\alpha, \gamma)$, (α, n) , $E=2.000, 2.270$ MeV; measured $E\gamma$, $I\gamma$, $\gamma(\theta)$, E_n , σ , and $\sigma(\theta)$; deduced astrophysical S factors. Comparison with previous experimental data. ^{27}Al , ^{127}I , $^{206,207,208}\text{Pb}(n, n')$, $E=3.5-4.4$ MeV; $^{127}\text{I}(n, \gamma)$, $E=10.1-11.3$ MeV; measured $E\gamma$. JOUR PRVCA 80 065802
- ^{128}Xe 2009C024 NUCLEAR REACTIONS $^{12}\text{C}(^{128}\text{Xe}, ^{128}\text{Xe}')$, $E=404$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and γ -ray yields in Coulomb excitation using Gammasphere array. ^{128}Xe ; deduced levels, J , π , $B(E2)$, and $B(E2)$ ratios. Tested validity of $E(5)$ symmetry. JOUR PRVCA 80 061304

A=129

- ^{129}Cs 2010WA01 NUCLEAR REACTIONS $^{124}\text{Sn}(^{11}\text{B}, 6n)$, $E=65$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced energy levels, negative and positive-parity bands, $B(E2)$, transition quadrupole moments. Doppler shift attenuation method (DSAM). JOUR CPLEE 27 022101
- ^{129}Ce 2009PA40 NUCLEAR REACTIONS $^{100}\text{Mo}(^{32}\text{S}, 5n)$, $(^{34}\text{S}, 5n)$, $E=155$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using Euroball and Eurogam arrays. $^{127,129}\text{Ce}$; deduced levels, J , π , bands, and configurations. Comparison with cranked Woods-Saxon calculations, and with systematics of light odd- N cerium nuclei. JOUR PRVCA 80 054312

A=130

- ^{130}Te 2009CH59 NUCLEAR REACTIONS ^{125}Te , $^{126}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, $E=195$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, $\gamma(\text{particle})$ -coin, $\gamma\gamma(\theta)$, and g factor. ^{125}Te ; deduced levels, J , π , mixing ratios. Comparison with shell model and weak-coupling model calculations. ^{124}Te , ^{128}Te , $^{130}\text{Te}(^{58}\text{Ni}, ^{58}\text{Ni}')$, $E=195$ MeV; measured $E\gamma$. JOUR PRVCA 80 054301

KEYNUMBERS AND KEYWORDS

A=130 (continued)

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| | 2010SI06 | RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 270 |
| | 2010ZU02 | RADIOACTIVITY $^{106,114,116}\text{Cd}$, $^{120,128,130}\text{Te}$, $^{64}\text{Zn}(2\beta)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 267 |
| ^{130}Xe | 2009BEZP | RADIOACTIVITY $^{130}\text{Cs}(\beta^+)$ [from $^{126}\text{Te}(^7\text{Li}, 3n)$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma(\theta)$ -coin.; deduced mixing ratio. Compared with earlier calculations of the same authors using Nuclear Pair Shell Model. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P567,Bettermann |
| | 2010SI06 | RADIOACTIVITY ^{100}Mo , ^{82}Se , ^{116}Cd , ^{150}Nd , ^{96}Zr , ^{48}Ca , $^{130}\text{Te}(2\beta^-)$; measured Ee, Ie; deduced $T_{1/2}$. JOUR PPNPD 64 270 |
| ^{130}Cs | 2009BEZP | RADIOACTIVITY $^{130}\text{Cs}(\beta^+)$ [from $^{126}\text{Te}(^7\text{Li}, 3n)$]; measured $E\gamma$, $I\gamma$, $\gamma\gamma(\theta)$ -coin.; deduced mixing ratio. Compared with earlier calculations of the same authors using Nuclear Pair Shell Model. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P567,Bettermann |

A=131

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| ^{131}Sb | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, X)$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{131}I | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, X)$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{131}Ba | 2008DIZT | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , $^{130,132}\text{Ba}$, $^{156}\text{Dy}(n, \gamma)$, E \approx 25 keV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with MACS30 recommended values. CONF Nice (Nucl Data for Sci and Technol) Proc,P575 |
| | 2010DI01 | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , ^{130}Ba , ^{132}Ba , ^{156}Dy , $^{197}\text{Au}(n, \gamma)$, E=0-120 keV; measured $E\gamma$, $I\gamma$, Maxwellian-averaged σ by activation technique; deduced reaction rates for p process. Comparison with standard Hauser-Feshbach models and with results from various reaction libraries including ENDF-B / VII.0. JOUR PRVCA 81 015801 |
| | 2010SI04 | NUCLEAR REACTIONS $^{124}\text{Sn}(^{16}\text{O}, X)^{133}\text{Ce} / ^{134}\text{Ce} / ^{135}\text{Ce} / ^{133}\text{La} / ^{135}\text{La} / ^{131}\text{Ba} / ^{132}\text{Ba} / ^{133}\text{Ba} / ^{128,130,133}\text{Xe} / ^{131}\text{Cs} / ^{127}\text{I}$, E=6.3 MeV / nucleon; measured $E\gamma$, $I\gamma$; deduced spin distributions of evaporation residues formed in xn, pxn, α xn, α pxn and 2α xn reaction channels. JOUR PRVCA 81 027602 |

KEYNUMBERS AND KEYWORDS

A=132

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|-------------------|----------|--|
| ^{132}Te | 2010RE01 | NUCLEAR REACTIONS $^{232}\text{Th}(^6\text{Li}, \text{X})$, E=45 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ^{88}Br , ^{93}Rb , $^{95,98,99}\text{Y}$, ^{99}Mo , ^{100}Tc , $^{121,123}\text{In}$, $^{119,120,121,122,123,124,125,126,127}\text{Sn}$, $^{123,125,127,131}\text{Sb}$, ^{131}I , ^{132}Te , $^{134,136}\text{Xe}$; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301 |
| ^{132}Ba | 2010PA02 | NUCLEAR REACTIONS $^{134,136}\text{Ba}(p, t)$, E=25 MeV; measured $E(t)$, $I(t)$, $\sigma(\theta)$ using Q3D magnetic spectrometer. $^{132,134}\text{Ba}$; deduced levels, J, π , relative 2-n transfer intensities, transition probabilities. Comparison with distorted-wave Born approximation (DWBA) calculations. Discussed validity of U(5) and U(6) symmetries of the IBA model. JOUR PRVCA 81 014304 |
| | 2010SI04 | NUCLEAR REACTIONS $^{124}\text{Sn}(^{16}\text{O}, \text{X})^{133}\text{Ce} / ^{134}\text{Ce} / ^{135}\text{Ce} / ^{133}\text{La} / ^{135}\text{La} / ^{131}\text{Ba} / ^{132}\text{Ba} / ^{133}\text{Ba} / ^{128,130,133}\text{Xe} / ^{131}\text{Cs} / ^{127}\text{I}$, E=6.3 MeV / nucleon; measured $E\gamma$, $I\gamma$; deduced spin distributions of evaporation residues formed in xn, pxn, α xn, α pxn and 2α xn reaction channels. JOUR PRVCA 81 027602 |

A=133

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| ^{133}Xe | 2009SH42 | NUCLEAR REACTIONS $^{12}\text{C}(^{238}\text{U}, \text{X})$, E=1.45 GeV; measured $E\gamma$, $I\gamma$ using EXOGAM array, fission fragments using VAMOS detector. ^{134}Xe ; deduced levels, J, π . ^{100}Zr , $^{106,107,108,109}\text{Ru}$, ^{133}Xe , ^{138}Xe ; measured $E\gamma$. Comparison with shell model calculations for $Z>49$, $N<83$ nuclei. JOUR PRVCA 80 051305 |
| ^{133}Ba | 2008DIZT | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , $^{130,132}\text{Ba}$, $^{156}\text{Dy}(n, \gamma)$, E \approx 25 keV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with MACS30 recommended values. CONF Nice (Nucl Data for Sci and Technol) Proc,P575 |
| | 2010DI01 | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , ^{130}Ba , ^{132}Ba , ^{156}Dy , $^{197}\text{Au}(n, \gamma)$, E=0-120 keV; measured $E\gamma$, $I\gamma$, Maxwellian-averaged σ by activation technique; deduced reaction rates for p process. Comparison with standard Hauser-Feshbach models and with results from various reaction libraries including ENDF-B / VII.0. JOUR PRVCA 81 015801 |
| | 2010SI04 | NUCLEAR REACTIONS $^{124}\text{Sn}(^{16}\text{O}, \text{X})^{133}\text{Ce} / ^{134}\text{Ce} / ^{135}\text{Ce} / ^{133}\text{La} / ^{135}\text{La} / ^{131}\text{Ba} / ^{132}\text{Ba} / ^{133}\text{Ba} / ^{128,130,133}\text{Xe} / ^{131}\text{Cs} / ^{127}\text{I}$, E=6.3 MeV / nucleon; measured $E\gamma$, $I\gamma$; deduced spin distributions of evaporation residues formed in xn, pxn, α xn, α pxn and 2α xn reaction channels. JOUR PRVCA 81 027602 |
| ^{133}La | 2010SI04 | NUCLEAR REACTIONS $^{124}\text{Sn}(^{16}\text{O}, \text{X})^{133}\text{Ce} / ^{134}\text{Ce} / ^{135}\text{Ce} / ^{133}\text{La} / ^{135}\text{La} / ^{131}\text{Ba} / ^{132}\text{Ba} / ^{133}\text{Ba} / ^{128,130,133}\text{Xe} / ^{131}\text{Cs} / ^{127}\text{I}$, E=6.3 MeV / nucleon; measured $E\gamma$, $I\gamma$; deduced spin distributions of evaporation residues formed in xn, pxn, α xn, α pxn and 2α xn reaction channels. JOUR PRVCA 81 027602 |

KEYNUMBERS AND KEYWORDS

A=133 (continued)

¹³³Ce 2010SI04 NUCLEAR REACTIONS ¹²⁴Sn(¹⁶O, X)¹³³Ce / ¹³⁴Ce / ¹³⁵Ce / ¹³³La / ¹³⁵La / ¹³¹Ba / ¹³²Ba / ¹³³Ba / ^{128,130,133}Xe / ¹³¹Cs / ¹²⁷I, E=6.3 MeV / nucleon; measured E_γ, I_γ; deduced spin distributions of evaporation residues formed in xn, pxn, αxn, αpxn and 2αxn reaction channels. JOUR PRVCA 81 027602

A=134

¹³⁴Xe 2009SH42 NUCLEAR REACTIONS ¹²C(²³⁸U, X), E=1.45 GeV; measured E_γ, I_γ using EXOGAM array, fission fragments using VAMOS detector. ¹³⁴Xe; deduced levels, J, π. ¹⁰⁰Zr, ^{106,107,108,109}Ru, ¹³³Xe, ¹³⁸Xe; measured E_γ. Comparison with shell model calculations for Z>49, N<83 nuclei. JOUR PRVCA 80 051305

2010RE01 NUCLEAR REACTIONS ²³²Th(⁶Li, X), E=45 MeV; measured E_γ, I_γ, γγ-coin, particle spectra, (particle)γ-coin, (particle)γ-correlations using STARS Si array at LBNL and Ge detectors. ⁸⁸Br, ⁹³Rb, ^{95,98,99}Y, ⁹⁹Mo, ¹⁰⁰Tc, ^{121,123}In, ^{119,120,121,122,123,124,125,126,127}Sn, ^{123,125,127,131}Sb, ¹³¹I, ¹³²Te, ^{134,136}Xe; measured isomer half-lives; deduced levels, J, π. Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301

¹³⁴Ba 2010PA02 NUCLEAR REACTIONS ^{134,136}Ba(p, t), E=25 MeV; measured E(t), I(t), σ(θ) using Q3D magnetic spectrometer. ^{132,134}Ba; deduced levels, J, π, relative 2-n transfer intensities, transition probabilities. Comparison with distorted-wave Born approximation (DWBA) calculations. Discussed validity of U(5) and U(6) symmetries of the IBA model. JOUR PRVCA 81 014304

¹³⁴Ce 2010SI04 NUCLEAR REACTIONS ¹²⁴Sn(¹⁶O, X)¹³³Ce / ¹³⁴Ce / ¹³⁵Ce / ¹³³La / ¹³⁵La / ¹³¹Ba / ¹³²Ba / ¹³³Ba / ^{128,130,133}Xe / ¹³¹Cs / ¹²⁷I, E=6.3 MeV / nucleon; measured E_γ, I_γ; deduced spin distributions of evaporation residues formed in xn, pxn, αxn, αpxn and 2αxn reaction channels. JOUR PRVCA 81 027602

A=135

¹³⁵Te 2009CIZY NUCLEAR REACTIONS ²H(¹³⁴Te, p), E≈5 MeV / nucleon; measured E_p, I_p, θ(p); deduced σ(θ), excitation energy spectrum. Preliminary. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P463,Cizewski

2010LI03 RADIOACTIVITY ²⁵²Cf(SF); measured E_γ, I_γ, γγ-coin, γγ(θ) using Gammasphere array. ¹³⁵Te, ¹³⁶I, ¹³⁷Xe, ¹³⁸Cs; deduced levels, J, π. Comparison with shell model calculations. JOUR PRVCA 81 014316

¹³⁵La 2010SI04 NUCLEAR REACTIONS ¹²⁴Sn(¹⁶O, X)¹³³Ce / ¹³⁴Ce / ¹³⁵Ce / ¹³³La / ¹³⁵La / ¹³¹Ba / ¹³²Ba / ¹³³Ba / ^{128,130,133}Xe / ¹³¹Cs / ¹²⁷I, E=6.3 MeV / nucleon; measured E_γ, I_γ; deduced spin distributions of evaporation residues formed in xn, pxn, αxn, αpxn and 2αxn reaction channels. JOUR PRVCA 81 027602

KEYNUMBERS AND KEYWORDS

A=135 (continued)

¹³⁵Ce 2010SI04 NUCLEAR REACTIONS ¹²⁴Sn(¹⁶O, X)¹³³Ce / ¹³⁴Ce / ¹³⁵Ce / ¹³³La / ¹³⁵La / ¹³¹Ba / ¹³²Ba / ¹³³Ba / ^{128,130,133}Xe / ¹³¹Cs / ¹²⁷I, E=6.3 MeV / nucleon; measured E γ , I γ ; deduced spin distributions of evaporation residues formed in xn, pxn, α xn, α pxn and 2 α xn reaction channels. JOUR PRVCA 81 027602

A=136

¹³⁶I 2010LI03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁵Te, ¹³⁶I, ¹³⁷Xe, ¹³⁸Cs; deduced levels, J, π . Comparison with shell model calculations. JOUR PRVCA 81 014316

¹³⁶Xe 2009SAZW NUCLEAR REACTIONS ¹³⁶Xe, ¹³⁸Ba, ¹⁴⁰Ce, ¹⁴²Nd, ¹⁴⁴Sm(γ , γ'), E \approx 2800-9000 keV; measured E γ , I γ , $\theta(\gamma)$ using S-DALINAC; deduced E, J, π , decay width, B(E1); calculated B(E1), fragmentation using QPM. Compared to data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P486,Savran

 2010RE01 NUCLEAR REACTIONS ²³²Th(⁶Li, X), E=45 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, particle spectra, (particle) γ -coin, (particle) γ -correlations using STARS Si array at LBNL and Ge detectors. ⁸⁸Br, ⁹³Rb, ^{95,98,99}Y, ⁹⁹Mo, ¹⁰⁰Tc, ^{121,123}In, ^{119,120,121,122,123,124,125,126,127}Sn, ^{123,125,127,131}Sb, ¹³¹I, ¹³²Te, ^{134,136}Xe; measured isomer half-lives; deduced levels, J, π . Level systematics of neighboring Sn, Sb and In nuclides. JOUR PRVCA 81 014301

¹³⁶Ba 2009SCZZ NUCLEAR REACTIONS ¹³⁶Ba(n, n' γ), E=2.2-3.9 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced E, J, π , B(E2), B(M1) transition strengths, rotational bands, branching ratios, mixing ratio, multiphonon states, half-life. E and B(M1) compared to near-by nuclei data from literature. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P253,Scheck

A=137

¹³⁷Te 2009RZ02 NUCLEAR REACTIONS ²³⁵U, ²⁴²Am(n, F)¹³⁷Te / ¹⁴²Cs / ¹⁴⁴Cs, E=thermal; measured ionic charge distribution of fragments, E γ , I γ , ce, γ (ce)-, delayed γ (fragments)-, delayed (ce)(fragments)-coin using LOHENGRIN fragment separator. ^{142,144}Cs; deduced levels and isomer half-lives. JOUR PRVCA 80 064317

¹³⁷Xe 2010LI03 RADIOACTIVITY ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. ¹³⁵Te, ¹³⁶I, ¹³⁷Xe, ¹³⁸Cs; deduced levels, J, π . Comparison with shell model calculations. JOUR PRVCA 81 014316

 2010LI03 NUCLEAR MOMENTS ¹³⁷Xe; measured g factor of a 15 / 2- state using integral perturbed angular correlation (IPAC) technique. JOUR PRVCA 81 014316

KEYNUMBERS AND KEYWORDS

A=138

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|-------------------|----------|---|
| ^{138}Te | 2010LI02 | ATOMIC MASSES $^{85,86}\text{As}$, ^{89}Se , ^{123}Ag , ^{138}Te , $^{140,141}\text{I}$, ^{143}Xe , $^{221,222}\text{At}$, ^{223}Rn , ^{228}Fr , ^{231}Ra ; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511 |
| ^{138}Xe | 2009SH42 | NUCLEAR REACTIONS $^{12}\text{C}(^{238}\text{U}, \text{X})$, $E=1.45$ GeV; measured $E\gamma$, $I\gamma$ using EXOGAM array, fission fragments using VAMOS detector. ^{134}Xe ; deduced levels, J , π . ^{100}Zr , $^{106,107,108,109}\text{Ru}$, ^{133}Xe , ^{138}Xe ; measured $E\gamma$. Comparison with shell model calculations for $Z>49$, $N<83$ nuclei. JOUR PRVCA 80 051305 |
| ^{138}Cs | 2010LI03 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. ^{135}Te , ^{136}I , ^{137}Xe , ^{138}Cs ; deduced levels, J , π . Comparison with shell model calculations. JOUR PRVCA 81 014316 |
| ^{138}Ba | 2009SAZW | NUCLEAR REACTIONS ^{136}Xe , ^{138}Ba , ^{140}Ce , ^{142}Nd , $^{144}\text{Sm}(\gamma, \gamma')$, $E\approx 2800-9000$ keV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$ using S-DALINAC; deduced E , J , π , decay width, $B(E1)$; calculated $B(E1)$, fragmentation using QPM. Compared to data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P486,Savran |
| | 2010T001 | NUCLEAR REACTIONS $^{138}\text{Ba}(\gamma, \gamma)$, (γ, γ') , $E \approx$ below one-neutron separation energy; measured $E\gamma$, $I\gamma$; deduced σ , energy levels, $B(E1)$, $B(M1)$. Comparison with QPM calculations. JOUR PRLTA 104 072501 |

A=139

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| ^{139}Ce | 2010SI02 | NUCLEAR REACTIONS $\text{Ce}(d, \text{X})^{139}\text{Ce} / ^{141}\text{Ce} / ^{143}\text{Ce} / ^{142}\text{Pr}$, $E=5-18.5$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with TALYS calculations. JOUR RAACA 98 187 |
| ^{139}Nd | 2008SUZQ | NUCLEAR REACTIONS $\text{Ce}(^3\text{He}, \text{xn})^{139}\text{Nd}$, $E=36.9$ MeV; $^{141}\text{Pr}(p, 3n)$, $E=20, 45$ MeV; measured $E\gamma$, $I\gamma$; deduced σ to ground and isomeric state; calculated σ using STAPRE. Compared to other data. CONF Nice (Nucl Data for Sci and Technol) Proc,P467 |

A=140

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|-------------------|----------|---|
| ^{140}I | 2010LI02 | ATOMIC MASSES $^{85,86}\text{As}$, ^{89}Se , ^{123}Ag , ^{138}Te , $^{140,141}\text{I}$, ^{143}Xe , $^{221,222}\text{At}$, ^{223}Rn , ^{228}Fr , ^{231}Ra ; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511 |
| ^{140}La | 2010CH01 | NUCLEAR REACTIONS ^{197}Au , $^{139}\text{La}(n, \gamma)$, $E=0.0536$ eV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ENDF / B-VII.0 and JENDL-3.3 libraries. JOUR RAACA 98 1 |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| | 2010DI02 | NUCLEAR REACTIONS ^{197}Au , ^{94}Zr , ^{64}Zn , ^{45}Sc , $^{139}\text{La}(n, \gamma)$, $E=\text{thermal}$; measured $E\gamma$, $I\gamma$; deduced shape of neutron flux, covariances. JOUR ARISE 68 592 |

KEYNUMBERS AND KEYWORDS

A=140 (*continued*)

^{140}Ce	2009ENZY	NUCLEAR REACTIONS ^{124}Sn , $^{140}\text{Ce}(\alpha, \alpha'\gamma)$, E=136 MeV; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin.; deduced σ , B(E1). Compared to (γ, γ') reactions. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P357,Endres
	2009SAZW	NUCLEAR REACTIONS ^{136}Xe , ^{138}Ba , ^{140}Ce , ^{142}Nd , $^{144}\text{Sm}(\gamma, \gamma')$, E \approx 2800-9000 keV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$ using S-DALINAC; deduced E, J, π , decay width, B(E1); calculated B(E1), fragmentation using QPM. Compared to data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P486,Savran
	2010KU02	RADIOACTIVITY ^{205}Hg , $^{207}\text{Tl}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=750 MeV / nucleon]; ^{140}Pr , ^{142}Pm , $^{122}\text{I}(\text{EC})$ [from $\text{Be}(^{152}\text{Sm}, \text{X})$, E=508 MeV / nucleon]; measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525
^{140}Pr	2009WI18	RADIOACTIVITY $^{140}\text{Pm}(\beta^+)$, $(\beta^+\text{EC})$ [from $^{140}\text{Sm}(\beta^+)$, $(\beta^+\text{EC})$, from $^{114}\text{Cd}(^{30}\text{Si}, 4n)$, E=130 MeV]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Yrast ball. ^{140}Nd ; deduced levels, J, π , and mixing ratios. Low-lying mixed-symmetry states discussed. Comparisons with level systematics of ^{136}Ba and ^{138}Ce . JOUR PRVCA 80 054309
	2009WIZV	RADIOACTIVITY $^{140}\text{Nd}(\text{EC})$ [from ^{140}Pm [from ^{140}Sm [from $^{114}\text{Cd}(^{30}\text{Si}, \text{X})^{140}\text{Sm}$, E=130 MeV]]]; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$, $\gamma\gamma$ -coin.; deduced multipole mixing ratios, M1 percentage. YRAST Ball array. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P268,Williams
	2010KU02	RADIOACTIVITY ^{205}Hg , $^{207}\text{Tl}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=750 MeV / nucleon]; ^{140}Pr , ^{142}Pm , $^{122}\text{I}(\text{EC})$ [from $\text{Be}(^{152}\text{Sm}, \text{X})$, E=508 MeV / nucleon]; measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525
^{140}Nd	2009WI18	RADIOACTIVITY $^{140}\text{Pm}(\beta^+)$, $(\beta^+\text{EC})$ [from $^{140}\text{Sm}(\beta^+)$, $(\beta^+\text{EC})$, from $^{114}\text{Cd}(^{30}\text{Si}, 4n)$, E=130 MeV]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Yrast ball. ^{140}Nd ; deduced levels, J, π , and mixing ratios. Low-lying mixed-symmetry states discussed. Comparisons with level systematics of ^{136}Ba and ^{138}Ce . JOUR PRVCA 80 054309
	2009WIZV	RADIOACTIVITY $^{140}\text{Nd}(\text{EC})$ [from ^{140}Pm [from ^{140}Sm [from $^{114}\text{Cd}(^{30}\text{Si}, \text{X})^{140}\text{Sm}$, E=130 MeV]]]; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$, $\gamma\gamma$ -coin.; deduced multipole mixing ratios, M1 percentage. YRAST Ball array. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P268,Williams
^{140}Pm	2009WI18	RADIOACTIVITY $^{140}\text{Pm}(\beta^+)$, $(\beta^+\text{EC})$ [from $^{140}\text{Sm}(\beta^+)$, $(\beta^+\text{EC})$, from $^{114}\text{Cd}(^{30}\text{Si}, 4n)$, E=130 MeV]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$ using Yrast ball. ^{140}Nd ; deduced levels, J, π , and mixing ratios. Low-lying mixed-symmetry states discussed. Comparisons with level systematics of ^{136}Ba and ^{138}Ce . JOUR PRVCA 80 054309

KEYNUMBERS AND KEYWORDS

A=141

- ¹⁴¹I 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511
- ¹⁴¹Ce 2010SI02 NUCLEAR REACTIONS Ce(d, X)¹³⁹Ce / ¹⁴¹Ce / ¹⁴³Ce / ¹⁴²Pr, E=5-18.5 MeV; measured E γ , I γ ; deduced σ . Comparison with TALYS calculations. JOUR RAACA 98 187

A=142

- ¹⁴²Cs 2009RZ02 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, $\gamma(t)$, and isomer half-lives using EUROGAM2 array. ^{142,144}Cs; deduced levels, J, π , bands, isomers and configurations. Comparison with quasiparticle rotor model (QPRM) calculations. JOUR PRVCA 80 064317
- 2009RZ02 NUCLEAR REACTIONS ²³⁵U, ²⁴²Am(n, F)¹³⁷Te / ¹⁴²Cs / ¹⁴⁴Cs, E=thermal; measured ionic charge distribution of fragments, E γ , I γ , ce, γ (ce)-, delayed γ (fragments)-, delayed (ce)(fragments)-coin using LOHENGRIN fragment separator. ^{142,144}Cs; deduced levels and isomer half-lives. JOUR PRVCA 80 064317
- ¹⁴²Pr 2010SI02 NUCLEAR REACTIONS Ce(d, X)¹³⁹Ce / ¹⁴¹Ce / ¹⁴³Ce / ¹⁴²Pr, E=5-18.5 MeV; measured E γ , I γ ; deduced σ . Comparison with TALYS calculations. JOUR RAACA 98 187
- ¹⁴²Nd 2009SAZW NUCLEAR REACTIONS ¹³⁶Xe, ¹³⁸Ba, ¹⁴⁰Ce, ¹⁴²Nd, ¹⁴⁴Sm(γ , γ'), E \approx 2800-9000 keV; measured E γ , I γ , $\theta(\gamma)$ using S-DALINAC; deduced E, J, π , decay width, B(E1); calculated B(E1), fragmentation using QPM. Compared to data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P486,Savran
- 2010KU02 RADIOACTIVITY ²⁰⁵Hg, ²⁰⁷Tl(β^-) [from Be(²⁰⁸Pb, X), E=750 MeV / nucleon];¹⁴⁰Pr, ¹⁴²Pm, ¹²²I(EC) [from Be(¹⁵²Sm, X), E=508 MeV / nucleon];measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525
- ¹⁴²Pm 2010KU02 RADIOACTIVITY ²⁰⁵Hg, ²⁰⁷Tl(β^-) [from Be(²⁰⁸Pb, X), E=750 MeV / nucleon];¹⁴⁰Pr, ¹⁴²Pm, ¹²²I(EC) [from Be(¹⁵²Sm, X), E=508 MeV / nucleon];measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525

A=143

- ¹⁴³Xe 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511
- ¹⁴³Ce 2010SI02 NUCLEAR REACTIONS Ce(d, X)¹³⁹Ce / ¹⁴¹Ce / ¹⁴³Ce / ¹⁴²Pr, E=5-18.5 MeV; measured E γ , I γ ; deduced σ . Comparison with TALYS calculations. JOUR RAACA 98 187

A=144

- ¹⁴⁴Cs 2009RZ02 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, $\gamma(t)$, and isomer half-lives using EUROGAM2 array. ^{142,144}Cs; deduced levels, J, π , bands, isomers and configurations. Comparison with quasiparticle rotor model (QPRM) calculations. JOUR PRVCA 80 064317
- 2009RZ02 NUCLEAR REACTIONS ²³⁵U, ²⁴²Am(n, F)¹³⁷Te / ¹⁴²Cs / ¹⁴⁴Cs, E=thermal; measured ionic charge distribution of fragments, E γ , I γ , ce, $\gamma(ce)$ -, delayed $\gamma(\text{fragments})$ -, delayed (ce)(fragments)-coin using LOHENGRIN fragment separator. ^{142,144}Cs; deduced levels and isomer half-lives. JOUR PRVCA 80 064317
- ¹⁴⁴Sm 2009SAZW NUCLEAR REACTIONS ¹³⁶Xe, ¹³⁸Ba, ¹⁴⁰Ce, ¹⁴²Nd, ¹⁴⁴Sm(γ , γ'), E \approx 2800-9000 keV; measured E γ , I γ , $\theta(\gamma)$ using S-DALINAC; deduced E, J, π , decay width, B(E1); calculated B(E1), fragmentation using QPM. Compared to data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P486,Savran
- 2010FI01 NUCLEAR REACTIONS ¹⁴⁴Sm(⁶Li, ⁶Li), E=21.0, 22.1, 22.6, 23.0, 24.1, 26.0, 28.0, 30.1, 32.2, 35.1, 42.3 MeV; ¹⁴⁴Sm(⁷Li, ⁷Li), E=21.6, 22.1, 22.6, 23.0, 25.0, 27.0, 29.0, 30.0, 32.0, 35.0, 40.8 MeV; measured σ , $\sigma(\theta)$; deduced optical potentials parameters, sensitivity radii, and energy dependence of the real and imaginary parts of the optical potential. Optical model analyses. JOUR PRVCA 81 024613
- ¹⁴⁴Ho 2010MA08 NUCLEAR REACTIONS ⁹²Mo(⁵⁴Fe, np), E=226 MeV; measured γ spectra, E γ , I γ , $\gamma\gamma$ -, (particle) γ -coin, $\gamma(\theta)$, half-life and K-conversion-coefficients using JuroGam array and GREAT spectrometer. Recoil-decay (isomer) tagging method. ¹⁴⁴Ho; deduced levels, J, π , multipolarity, isomer, bands, configurations, staggering parameter and B(M1) / B(E2) ratios. Comparison with Woods Saxon cranked-shell model (CSM) calculations and with structures of ¹⁴⁰Eu and ¹⁴²Tb. Calculated potential energy surfaces (PES) and Routhians. JOUR PRVCA 81 024302
- 2010MA15 NUCLEAR REACTIONS ⁹²Mo(⁵⁴Fe, np), E=226 MeV; measured E γ , I γ , (recoil) γ -, $\gamma\gamma$ -coin, half-life, prompt and delayed γ rays using JUROGAM array. ¹⁴⁴Ho; deduced energy levels, J, π , isomer, configurations. Recoil-isomer tagging method. JOUR PYLBB 683 17

A=145

No references found

A=146

- ¹⁴⁶Gd 2010CAZZ NUCLEAR REACTIONS ¹⁴⁴Sm(α , 2n), E=26.3 MeV; measured E γ , I γ , $\gamma\gamma$ -coin., $\gamma(\theta)$, and $\gamma(\text{lin pol})$. ¹⁴⁶Gd; deduced levels, J, π , multipolarity, multiplet structures, and two-phonon octupole excitations. PREPRINT arXiv:1001.3279v1 [nucl-ex]

KEYNUMBERS AND KEYWORDS

A=147

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| ^{147}La | 2008HAZO | RADIOACTIVITY $^{147,148,149}\text{La}(\beta^-); ^{151}\text{Ce}(\beta^-); ^{153}\text{Pr}(\beta^-)$ [from $^{235}\text{U}(\text{n}, \text{f})$, from $^{235}\text{U}(\text{n}, \gamma)$]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q $_{\beta}$ using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131 |
| ^{147}Ce | 2008HAZO | RADIOACTIVITY $^{147,148,149}\text{La}(\beta^-); ^{151}\text{Ce}(\beta^-); ^{153}\text{Pr}(\beta^-)$ [from $^{235}\text{U}(\text{n}, \text{f})$, from $^{235}\text{U}(\text{n}, \gamma)$]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q $_{\beta}$ using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131 |

A=148

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|-------------------|----------|---|
| ^{148}La | 2008HAZO | RADIOACTIVITY $^{147,148,149}\text{La}(\beta^-); ^{151}\text{Ce}(\beta^-); ^{153}\text{Pr}(\beta^-)$ [from $^{235}\text{U}(\text{n}, \text{f})$, from $^{235}\text{U}(\text{n}, \gamma)$]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q $_{\beta}$ using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131 |
| ^{148}Ce | 2008HAZO | RADIOACTIVITY $^{147,148,149}\text{La}(\beta^-); ^{151}\text{Ce}(\beta^-); ^{153}\text{Pr}(\beta^-)$ [from $^{235}\text{U}(\text{n}, \text{f})$, from $^{235}\text{U}(\text{n}, \gamma)$]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q $_{\beta}$ using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131 |
| ^{148}Pr | 2008KOZO | RADIOACTIVITY $^{148,151}\text{Pr}(\beta^-)$; measured E γ , I γ , Ee, Ie;e- γ -coin.; deduced level properties E, J, π , isomeric transition, ^{148}Pr K-conversion coefficient, ^{151}Pr isomeric half-life; A=148-166[from $^{235}\text{U}(\text{n}, \text{f})$, E=thermal]; measured E γ , I γ , Ee, Ie;e- γ -coin.; deduced level properties E, J, π , isomeric transition. Compared to theoretical values. CONF Nice (Nucl Data for Sci and Technol) Proc,P115 |
| ^{148}Nd | 2008KOZO | RADIOACTIVITY $^{148,151}\text{Pr}(\beta^-)$; measured E γ , I γ , Ee, Ie;e- γ -coin.; deduced level properties E, J, π , isomeric transition, ^{148}Pr K-conversion coefficient, ^{151}Pr isomeric half-life; A=148-166[from $^{235}\text{U}(\text{n}, \text{f})$, E=thermal]; measured E γ , I γ , Ee, Ie;e- γ -coin.; deduced level properties E, J, π , isomeric transition. Compared to theoretical values. CONF Nice (Nucl Data for Sci and Technol) Proc,P115 |
| ^{148}Sm | 2009KOZU | NUCLEAR REACTIONS $^{95}\text{Mo}(\text{n}, \gamma)$, E not given; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced E, J, π , pulse-height in resonance regions; $^{147}\text{Sm}(\text{n}, \gamma)$, E=0-700 eV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced E, J, π , resonance spacing distributions, reduced neutron width; analyzed width distributions. Compared with Porter-Thomas, Mo measurements using (CIND)ORELA, Sm ones using DANCE at LANSCE. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P424,Koehler |

KEYNUMBERS AND KEYWORDS

A=149

- ¹⁴⁹La 2008HAZO RADIOACTIVITY ^{147,148,149}La(β^-);¹⁵¹Ce(β^-);¹⁵³Pr(β^-) [from ²³⁵U(n, f), from ²³⁵U(n, γ)]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q β using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131
- ¹⁴⁹Ce 2008HAZO RADIOACTIVITY ^{147,148,149}La(β^-);¹⁵¹Ce(β^-);¹⁵³Pr(β^-) [from ²³⁵U(n, f), from ²³⁵U(n, γ)]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q β using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131

A=150

- ¹⁵⁰Nd 2010SI06 RADIOACTIVITY ¹⁰⁰Mo, ⁸²Se, ¹¹⁶Cd, ¹⁵⁰Nd, ⁹⁶Zr, ⁴⁸Ca, ¹³⁰Te(2 β^-); measured Ee, Ie; deduced T_{1/2}. JOUR PPNPD 64 270
- ¹⁵⁰Sm 2010SI06 RADIOACTIVITY ¹⁰⁰Mo, ⁸²Se, ¹¹⁶Cd, ¹⁵⁰Nd, ⁹⁶Zr, ⁴⁸Ca, ¹³⁰Te(2 β^-); measured Ee, Ie; deduced T_{1/2}. JOUR PPNPD 64 270

A=151

- ¹⁵¹Ce 2008HAZO RADIOACTIVITY ^{147,148,149}La(β^-);¹⁵¹Ce(β^-);¹⁵³Pr(β^-) [from ²³⁵U(n, f), from ²³⁵U(n, γ)]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q β using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131
- 2010SI03 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and half-lives using Gammasphere and Eurogam-II arrays. ¹⁵¹Ce, ¹⁵³Nd; deduced levels, J, π , bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ¹⁵¹Ce, ¹⁵³Nd, ¹⁵⁵Sm, ¹⁵⁷Gd, ¹⁵⁹Dy; systematics of bandheads. JOUR PRVCA 81 024313
- ¹⁵¹Pr 2008HAZO RADIOACTIVITY ^{147,148,149}La(β^-);¹⁵¹Ce(β^-);¹⁵³Pr(β^-) [from ²³⁵U(n, f), from ²³⁵U(n, γ)]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q β using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131
- 2008KOZO RADIOACTIVITY ^{148,151}Pr(β^-); measured E γ , I γ , Ee, Ie;e- γ -coin.; deduced level properties E, J, π , isomeric transition, ¹⁴⁸Pr K-conversion coefficient, ¹⁵¹Pr isomeric half-life; A=148-166[from ²³⁵U(n, f), E=thermal]; measured E γ , I γ , Ee, Ie;e- γ -coin.; deduced level properties E, J, π , isomeric transition. Compared to theoretical values. CONF Nice (Nucl Data for Sci and Technol) Proc,P115

KEYNUMBERS AND KEYWORDS

A=151 (continued)

^{151}Nd	2008KOZO	RADIOACTIVITY $^{148,151}\text{Pr}(\beta^-)$; measured $E\gamma$, $I\gamma$, Ee , Ie ;e- γ -coin.; deduced level properties E , J , π , isomeric transition, ^{148}Pr K-conversion coefficient, ^{151}Pr isomeric half-life; A=148-166[from $^{235}\text{U}(n, f)$, E=thermal]; measured $E\gamma$, $I\gamma$, Ee , Ie ;e- γ -coin.; deduced level properties E , J , π , isomeric transition. Compared to theoretical values. CONF Nice (Nucl Data for Sci and Technol) Proc,P115
^{151}Sm	2008DAZW	NUCLEAR REACTIONS $^{150}\text{Sm}(n, \gamma)$, E=1-35 MeV; measured $E\gamma$, $I\gamma$ using GEANIE; deduced σ , spin distribution; calculated σ , spin distribution using GNASH and FKK. Compared to data. CONF Nice (Nucl Data for Sci and Technol) Proc,P231
	2009HE22	RADIOACTIVITY $^{151}\text{Sm}(\beta^-)$ [from $^{150}\text{Sm}(n, \gamma)$, E=thermal]; measured $E\gamma$, $I\gamma$, and half-life by specific activity method. Comparison with previous half-life measurements. JOUR PRVCA 80 064305
^{151}Eu	2009HE22	RADIOACTIVITY $^{151}\text{Sm}(\beta^-)$ [from $^{150}\text{Sm}(n, \gamma)$, E=thermal]; measured $E\gamma$, $I\gamma$, and half-life by specific activity method. Comparison with previous half-life measurements. JOUR PRVCA 80 064305
^{151}Gd	2010LU01	NUCLEAR REACTIONS $^{152,154,160}\text{Gd}$, $^{93}\text{Nb}(n, 2n)$, $^{156,157,158}\text{Gd}(n, p)$, ^{27}Al , $^{158}\text{Gd}(n, \alpha)$, E=13.5-14.8 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with available experimental data. JOUR RAACA 98 127

A=152

^{152}Sm	2009GAZW	NUCLEAR REACTIONS $^{150}\text{Nd}(\alpha, 2n)$, E=22.8 MeV; measured non-yrast $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; $^{208}\text{Pb}(\text{}^{152}\text{Sm}, \text{}^{152}\text{Sm}')$, E=652 MeV; measured Coulomb excitation $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; $^{152}\text{Sm}(n, n'\gamma)$, E=1.2-3.0 MeV; measured $E\gamma$, $I\gamma$; $^{152}\text{Sm}(n, n'\gamma)$, E=2.05, 2.7 MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; $^{152}\text{Sm}(n, n'\gamma)$, E=3.2 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ , $d\sigma(\theta)$, E , J , π , $B(E2)$, bands, decay schemes. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P391,Garrett
	2010C002	NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, E=0.001-1 MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643
^{152}Eu	2008PAZR	NUCLEAR REACTIONS $^{151}\text{Eu}(n, \gamma)$, E=0.2 eV - 100 keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ ; $^{242}\text{Am}(n, \gamma)$, E \approx 2-100 eV; measured $E\gamma$, $I\gamma$, E(fragment), I(fragment), (fragment)- γ coin.; deduced σ . Compared to other data. DICEBOX, GEANT-4, DANCE. CONF Nice (Nucl Data for Sci and Technol) Proc,P491
	2008ZAZY	RADIOACTIVITY $^{60}\text{Co}(\beta^-)$, $^{152}\text{Eu}(\beta^-)$, $^{193}\text{Os}(\beta^-)$; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$, $\gamma\gamma$ -coin.; deduced mixing ratio, angular correlations. CONF Nice (Nucl Data for Sci and Technol) Proc,P455
^{152}Gd	2008ZAZY	RADIOACTIVITY $^{60}\text{Co}(\beta^-)$, $^{152}\text{Eu}(\beta^-)$, $^{193}\text{Os}(\beta^-)$; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$, $\gamma\gamma$ -coin.; deduced mixing ratio, angular correlations. CONF Nice (Nucl Data for Sci and Technol) Proc,P455

A=153

- ¹⁵³Pr 2008HAZO RADIOACTIVITY ^{147,148,149}La(β^-);¹⁵¹Ce(β^-);¹⁵³Pr(β^-) [from ²³⁵U(n, f), from ²³⁵U(n, γ)]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q β using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131
- ¹⁵³Nd 2008HAZO RADIOACTIVITY ^{147,148,149}La(β^-);¹⁵¹Ce(β^-);¹⁵³Pr(β^-) [from ²³⁵U(n, f), from ²³⁵U(n, γ)]; measured Ee, Ie, E γ , I γ , $\gamma\gamma$ -coin., $\beta\gamma$ -coin.; deduced endpoint energy, Q β using folding method. KUR-ISOL on-line mass separator. Compared to other data and to evaluated values. CONF Nice (Nucl Data for Sci and Technol) Proc,P131
- 2010SI03 NUCLEAR REACTIONS ²³⁹Pu(n, F), ²⁴¹Am(n, F), E=thermal; measured E γ , I γ , ce, $\gamma\gamma^-$, (x ray) γ^- , (ce) γ^- , (fragment) γ -coin, delayed γ , and half-lives. ¹⁵³Nd, ¹⁵⁵Sm; deduced levels, J, π , conversion coefficients, multipolarities, bands, Nilsson configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. JOUR PRVCA 81 024313
- 2010SI03 RADIOACTIVITY ²⁴⁸Cm, ²⁵²Cf(SF); measured E γ , I γ , $\gamma\gamma$ -coin, and half-lives using Gammasphere and Eurogam-II arrays. ¹⁵¹Ce, ¹⁵³Nd; deduced levels, J, π , bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ¹⁵¹Ce, ¹⁵³Nd, ¹⁵⁵Sm, ¹⁵⁷Gd, ¹⁵⁹Dy; systematics of bandheads. JOUR PRVCA 81 024313
- ¹⁵³Gd 2010LU01 NUCLEAR REACTIONS ^{152,154,160}Gd, ⁹³Nb(n, 2n), ^{156,157,158}Gd(n, p), ²⁷Al, ¹⁵⁸Gd(n, α), E=13.5-14.8 MeV; measured E γ , I γ ; deduced σ . Compared with available experimental data. JOUR RAACA 98 127
- ¹⁵³Yb 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α)[from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310

A=154

- ¹⁵⁴Sm 2009WIZU NUCLEAR REACTIONS ¹⁵⁴Sm, ¹⁶⁶Er(¹⁶O, ¹⁶O'), E=55, 60, 65 MeV; measured conversion electrons Ee, Ie after Coulomb excitation; deduced E, J, π , monopole strength, B(E2), β -band, γ -band; calculated E, J, π , transition strengths. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P539,Wimmer
- ¹⁵⁴Gd 2010BA02 NUCLEAR REACTIONS ¹⁵²Sm(α , 2n), ¹⁴⁷Sm(¹⁶O, 3n), E=25, 73 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced the lowest-energy negative-parity bands in ¹⁶⁰Yb and ¹⁵⁴Gd. Comparison with band-mixing calculations. JOUR PRLTA 104 022501

KEYNUMBERS AND KEYWORDS

A=155

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|-------------------|----------|---|
| ¹⁵⁵ Sm | 2010LU01 | NUCLEAR REACTIONS ^{152,154,160} Gd, ⁹³ Nb(n, 2n), ^{156,157,158} Gd(n, p), ²⁷ Al, ¹⁵⁸ Gd(n, α), E=13.5-14.8 MeV; measured Eγ, Iγ; deduced σ. Compared with available experimental data. JOUR RAACA 98 127 |
| | 2010SI03 | NUCLEAR REACTIONS ²³⁹ Pu(n, F), ²⁴¹ Am(n, F), E=thermal; measured Eγ, Iγ, ce, γγ-, (x ray)γ-, (ce)γ-, (fragment)γ-coin, delayed γ, and half-lives. ¹⁵³ Nd, ¹⁵⁵ Sm; deduced levels, J, π, conversion coefficients, multipolarities, bands, Nilsson configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. JOUR PRVCA 81 024313 |
| | 2010SI03 | RADIOACTIVITY ²⁴⁸ Cm, ²⁵² Cf(SF); measured Eγ, Iγ, γγ-coin, and half-lives using Gammasphere and Eurogam-II arrays. ¹⁵¹ Ce, ¹⁵³ Nd; deduced levels, J, π, bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ¹⁵¹ Ce, ¹⁵³ Nd, ¹⁵⁵ Sm, ¹⁵⁷ Gd, ¹⁵⁹ Dy; systematics of bandheads. JOUR PRVCA 81 024313 |
| ¹⁵⁵ Eu | 2010DZ01 | NUCLEAR REACTIONS ¹⁷⁵ Lu(n, 2n), (n, p), (n, α), E=13.5-14.6 MeV; ¹⁷⁶ Lu(n, α)E=13.5-14.6 MeV; ¹⁵⁹ Tb(n, p), (n, α), (n, n'α), (n, 2n), E=13.5-14.6 MeV; ¹⁸¹ Ta(n, γ), E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured Eγ, Iγ, σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610 |
| ¹⁵⁵ Yb | 2009SA49 | RADIOACTIVITY ¹⁵⁹ Hf, ¹⁶³ Ta, ^{162,163,164} W(α) [from ¹⁰⁶ Cd(⁶⁰ Ni, X), E=270 MeV]; measured Eα. JOUR PRVCA 80 054316 |

A=156

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| ¹⁵⁶ Eu | 2010DZ01 | NUCLEAR REACTIONS ¹⁷⁵ Lu(n, 2n), (n, p), (n, α), E=13.5-14.6 MeV; ¹⁷⁶ Lu(n, α)E=13.5-14.6 MeV; ¹⁵⁹ Tb(n, p), (n, α), (n, n'α), (n, 2n), E=13.5-14.6 MeV; ¹⁸¹ Ta(n, γ), E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured Eγ, Iγ, σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610 |
| | 2010LU01 | NUCLEAR REACTIONS ^{152,154,160} Gd, ⁹³ Nb(n, 2n), ^{156,157,158} Gd(n, p), ²⁷ Al, ¹⁵⁸ Gd(n, α), E=13.5-14.8 MeV; measured Eγ, Iγ; deduced σ. Compared with available experimental data. JOUR RAACA 98 127 |
| ¹⁵⁶ Gd | 2008NIZU | NUCLEAR REACTIONS ^{116,117,118,119} Sn, ^{155,156,157,158} Gd(n, γ), E=10-100 keV, 550 keV; measured Eγ, Iγ; deduced σ, dσ. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615 |
| ¹⁵⁶ Yb | 2009HA42 | RADIOACTIVITY ^{160,160m} Ta, ^{164,164m} Re, ^{168,168m} Ir, ¹⁷² Au(α)[from ⁹⁶ Ru(⁷⁸ Kr, X), E=342, 348 MeV]; measured Eα, αγ-correlations, and half-lives. ^{157,160} Hf, ^{160,164} W, ^{164,165,167,168} Os, ^{168,169,171} Ir, ^{169,170,171,172} Pt, ^{164,165} Re, ^{171,173} Au, ^{172,173} Hg(α); measured Eα, αα-correlations of α-decaying pairs. ¹⁶⁰ Ta, ¹⁶⁴ Re, ¹⁶⁸ Ir, ¹⁷² Au; deduced levels and isomers. JOUR PRVCA 80 064310 |

KEYNUMBERS AND KEYWORDS

A=156 (continued)

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| ^{156}Lu | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| ^{156}Hf | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |

A=157

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|-------------------|----------|--|
| ^{157}Eu | 2010LU01 | NUCLEAR REACTIONS $^{152,154,160}\text{Gd}$, $^{93}\text{Nb}(\text{n}, 2\text{n})$, $^{156,157,158}\text{Gd}(\text{n}, \text{p})$, ^{27}Al , $^{158}\text{Gd}(\text{n}, \alpha)$, E=13.5-14.8 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with available experimental data. JOUR RAACA 98 127 |
| ^{157}Gd | 2008NIZU | NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(\text{n}, \gamma)$, E=10-100 keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615 |
| | 2010SI03 | RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and half-lives using Gammasphere and Eurogam-II arrays. ^{151}Ce , ^{153}Nd ; deduced levels, J, π , bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ^{151}Ce , ^{153}Nd , ^{155}Sm , ^{157}Gd , ^{159}Dy ; systematics of bandheads. JOUR PRVCA 81 024313 |
| ^{157}Dy | 2008DIZT | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , $^{130,132}\text{Ba}$, $^{156}\text{Dy}(\text{n}, \gamma)$, E \approx 25 keV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with MACS30 recommended values. CONF Nice (Nucl Data for Sci and Technol) Proc,P575 |
| | 2010DI01 | NUCLEAR REACTIONS ^{102}Pd , ^{120}Te , ^{130}Ba , ^{132}Ba , ^{156}Dy , $^{197}\text{Au}(\text{n}, \gamma)$, E=0-120 keV; measured $E\gamma$, $I\gamma$, Maxwellian-averaged σ by activation technique; deduced reaction rates for p process. Comparison with standard Hauser-Feshbach models and with results from various reaction libraries including ENDF-B / VII.0. JOUR PRVCA 81 015801 |
| ^{157}Hf | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |

KEYNUMBERS AND KEYWORDS

A=158

^{158}Eu	2010LU01	NUCLEAR REACTIONS $^{152,154,160}\text{Gd}$, $^{93}\text{Nb}(n, 2n)$, $^{156,157,158}\text{Gd}(n, p)$, ^{27}Al , $^{158}\text{Gd}(n, \alpha)$, $E=13.5\text{-}14.8$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with available experimental data. JOUR RAACA 98 127
^{158}Gd	2008NIZU	NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(n, \gamma)$, $E=10\text{-}100$ keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615
^{158}Tb	2010DZ01	NUCLEAR REACTIONS $^{175}\text{Lu}(n, 2n)$, (n, p) , (n, α) , $E=13.5\text{-}14.6$ MeV; $^{176}\text{Lu}(n, \alpha)E=13.5\text{-}14.6$ MeV; $^{159}\text{Tb}(n, p)$, (n, α) , $(n, n'\alpha)$, $(n, 2n)$, $E=13.5\text{-}14.6$ MeV; $^{181}\text{Ta}(n, \gamma)$, $E=0.0019, 0.0587, 0.1445, 2.850, 14.340$ MeV; measured $E\gamma$, $I\gamma$, σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610
^{158}Hf	2009SA49	RADIOACTIVITY ^{159}Hf , ^{163}Ta , $^{162,163,164}\text{W}(\alpha)$ [from $^{106}\text{Cd}(^{60}\text{Ni}, X)$, $E=270$ MeV]; measured $E\alpha$. JOUR PRVCA 80 054316
	2010SC02	RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306

A=159

^{159}Gd	2008NIZU	NUCLEAR REACTIONS $^{116,117,118,119}\text{Sn}$, $^{155,156,157,158}\text{Gd}(n, \gamma)$, $E=10\text{-}100$ keV, 550 keV; measured $E\gamma$, $I\gamma$; deduced σ , $d\sigma$. Compared to other data, JENDL-3.3, ENDF / B-VI, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P615
	2010DZ01	NUCLEAR REACTIONS $^{175}\text{Lu}(n, 2n)$, (n, p) , (n, α) , $E=13.5\text{-}14.6$ MeV; $^{176}\text{Lu}(n, \alpha)E=13.5\text{-}14.6$ MeV; $^{159}\text{Tb}(n, p)$, (n, α) , $(n, n'\alpha)$, $(n, 2n)$, $E=13.5\text{-}14.6$ MeV; $^{181}\text{Ta}(n, \gamma)$, $E=0.0019, 0.0587, 0.1445, 2.850, 14.340$ MeV; measured $E\gamma$, $I\gamma$, σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610
	2010LU01	NUCLEAR REACTIONS $^{152,154,160}\text{Gd}$, $^{93}\text{Nb}(n, 2n)$, $^{156,157,158}\text{Gd}(n, p)$, ^{27}Al , $^{158}\text{Gd}(n, \alpha)$, $E=13.5\text{-}14.8$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared with available experimental data. JOUR RAACA 98 127
^{159}Dy	2010SI03	RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and half-lives using Gammasphere and Eurogam-II arrays. ^{151}Ce , ^{153}Nd ; deduced levels, J , π , bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ^{151}Ce , ^{153}Nd , ^{155}Sm , ^{157}Gd , ^{159}Dy ; systematics of bandheads. JOUR PRVCA 81 024313
^{159}Er	2009L09	NUCLEAR REACTIONS $^{116}\text{Cd}(^{48}\text{Ca}, X)$, $E=215$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ using Gammasphere array. $^{159,160}\text{Er}$; deduced levels, J , π , triaxial strongly deformed (TSD) bands, dynamical moment of inertia plots, and configurations. Calculated potential energy surfaces and single-particle proton and neutron energies (Routhians) with Cranked Nilsson-Strutinsky approach. JOUR PRVCA 80 064322
^{159}Lu	2009SA49	RADIOACTIVITY ^{159}Hf , ^{163}Ta , $^{162,163,164}\text{W}(\alpha)$ [from $^{106}\text{Cd}(^{60}\text{Ni}, X)$, $E=270$ MeV]; measured $E\alpha$. JOUR PRVCA 80 054316

KEYNUMBERS AND KEYWORDS

A=159 (continued)

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| ^{159}Hf | 2009SA49 | RADIOACTIVITY ^{159}Hf , ^{163}Ta , $^{162,163,164}\text{W}(\alpha)$ [from $^{106}\text{Cd}(^{60}\text{Ni}, \text{X})$, E=270 MeV]; measured $E\alpha$. JOUR PRVCA 80 054316 |
| | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |
| ^{159}Ta | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |

A=160

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|-------------------|----------|--|
| ^{160}Er | 2009OL09 | NUCLEAR REACTIONS $^{116}\text{Cd}(^{48}\text{Ca}, \text{X})$, E=215 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ using Gammasphere array. $^{159,160}\text{Er}$; deduced levels, J, π , triaxial strongly deformed (TSD) bands, dynamical moment of inertia plots, and configurations. Calculated potential energy surfaces and single-particle proton and neutron energies (Routhians) with Cranked Nilsson-Strutinsky approach. JOUR PRVCA 80 064322 |
| ^{160}Yb | 2010BA02 | NUCLEAR REACTIONS $^{152}\text{Sm}(\alpha, 2n)$, $^{147}\text{Sm}(^{16}\text{O}, 3n)$, E=25, 73 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced the lowest-energy negative-parity bands in ^{160}Yb and ^{154}Gd . Comparison with band-mixing calculations. JOUR PRLTA 104 022501 |
| ^{160}Hf | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2009SA49 | RADIOACTIVITY ^{159}Hf , ^{163}Ta , $^{162,163,164}\text{W}(\alpha)$ [from $^{106}\text{Cd}(^{60}\text{Ni}, \text{X})$, E=270 MeV]; measured $E\alpha$. JOUR PRVCA 80 054316 |
| ^{160}Ta | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| ^{160}W | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |

A=161

- ¹⁶¹Ta 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α)[from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310
- 2010SC02 RADIOACTIVITY ^{162,163}W, ^{163,165}Re, ^{165,166,167}Os, ^{169,171}Ir, ^{171,172}Pt, ¹⁷²Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹Pt(α); measured branching ratio. JOUR PRVCA 81 014306
- ¹⁶¹W 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α)[from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310
- 2010SC02 RADIOACTIVITY ^{162,163}W, ^{163,165}Re, ^{165,166,167}Os, ^{169,171}Ir, ^{171,172}Pt, ¹⁷²Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹Pt(α); measured branching ratio. JOUR PRVCA 81 014306

A=162

- ¹⁶²Hf 2009SA49 NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, 3p), E=270 MeV; measured E γ , I γ , $\gamma\gamma$ -, γ (recoil)-, $\gamma\alpha$ -coin, $\gamma\gamma$ (θ), DCO using JUROGAM array, RITU separator and GREAT spectrometer. ¹⁶³Ta; deduced levels, J, π , multipolarities, rotational bands, and configurations. Comparison with cranked shell model and total-Routhian surface calculations. ^{162,163,164}W, ¹⁶²Hf; measured E γ . JOUR PRVCA 80 054316
- ¹⁶²W 2009SA49 NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, 3p), E=270 MeV; measured E γ , I γ , $\gamma\gamma$ -, γ (recoil)-, $\gamma\alpha$ -coin, $\gamma\gamma$ (θ), DCO using JUROGAM array, RITU separator and GREAT spectrometer. ¹⁶³Ta; deduced levels, J, π , multipolarities, rotational bands, and configurations. Comparison with cranked shell model and total-Routhian surface calculations. ^{162,163,164}W, ¹⁶²Hf; measured E γ . JOUR PRVCA 80 054316
- 2009SA49 RADIOACTIVITY ¹⁵⁹Hf, ¹⁶³Ta, ^{162,163,164}W(α) [from ¹⁰⁶Cd(⁶⁰Ni, X), E=270 MeV]; measured E α . JOUR PRVCA 80 054316
- 2010SC02 RADIOACTIVITY ^{162,163}W, ^{163,165}Re, ^{165,166,167}Os, ^{169,171}Ir, ^{171,172}Pt, ¹⁷²Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹Pt(α); measured branching ratio. JOUR PRVCA 81 014306

A=163

- ¹⁶³Dy 2010NY01 NUCLEAR REACTIONS ¹⁶⁴Dy(³He, ³He'), (³He, α), E=38 MeV; measured continuum γ spectra, particle spectra, and (particle) γ -coin; deduced level density, radiative strength functions, contributions from giant dipole resonances, and integrated B(M1) strength of pygmy resonances. JOUR PRVCA 81 024325

A=163 (continued)

- ¹⁶³Ta 2009SA49 NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, 3p), E=270 MeV; measured E γ , I γ , $\gamma\gamma$ -, γ (recoil)-, $\gamma\alpha$ -coin, $\gamma\gamma(\theta)$, DCO using JUROGAM array, RITU separator and GREAT spectrometer. ¹⁶³Ta; deduced levels, J, π , multipolarities, rotational bands, and configurations. Comparison with cranked shell model and total-Routhian surface calculations. ^{162,163,164}W, ¹⁶²Hf; measured E γ . JOUR PRVCA 80 054316
- 2009SA49 RADIOACTIVITY ¹⁵⁹Hf, ¹⁶³Ta, ^{162,163,164}W(α) [from ¹⁰⁶Cd(⁶⁰Ni, X), E=270 MeV]; measured E α . JOUR PRVCA 80 054316
- ¹⁶³W 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α) [from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310
- 2009SA49 NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, 3p), E=270 MeV; measured E γ , I γ , $\gamma\gamma$ -, γ (recoil)-, $\gamma\alpha$ -coin, $\gamma\gamma(\theta)$, DCO using JUROGAM array, RITU separator and GREAT spectrometer. ¹⁶³Ta; deduced levels, J, π , multipolarities, rotational bands, and configurations. Comparison with cranked shell model and total-Routhian surface calculations. ^{162,163,164}W, ¹⁶²Hf; measured E γ . JOUR PRVCA 80 054316
- 2009SA49 RADIOACTIVITY ¹⁵⁹Hf, ¹⁶³Ta, ^{162,163,164}W(α) [from ¹⁰⁶Cd(⁶⁰Ni, X), E=270 MeV]; measured E α . JOUR PRVCA 80 054316
- 2010SC02 NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, n2p)¹⁶³W, E=270 MeV; ⁹²Mo(⁷⁸Kr, n α 2p)¹⁶³W, E=380 MeV; ⁹²Mo(⁷⁸Kr, n2p)¹⁶⁷Os, E=357, 365 MeV; ⁹⁶Ru(⁷⁸Kr, n2p)¹⁷¹Pt, E=348 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using the JUROGAM array, conversion electrons, σ ; deduced multipolarities, internal conversion coefficients. ¹⁶³W, ¹⁶⁷Os, ¹⁷¹Pt; deduced levels, J, π , half-lives. JOUR PRVCA 81 014306
- 2010SC02 RADIOACTIVITY ^{162,163}W, ^{163,165}Re, ^{165,166,167}Os, ^{169,171}Ir, ^{171,172}Pt, ¹⁷²Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹Pt(α); measured branching ratio. JOUR PRVCA 81 014306
- 2010TH01 NUCLEAR REACTIONS ¹⁰⁶Cd(⁶⁰Ni, n2p), E=270 MeV; measured E γ , I γ , $\gamma\gamma$ -coin using the JUROGAM array, DCO ratios. ¹⁶³W; deduced levels, J, π , bands, multipolarities, configurations. Comparisons with cranked Woods-Saxon shell-model calculations. JOUR PRVCA 81 014307
- ¹⁶³Re 2010SC02 RADIOACTIVITY ^{162,163}W, ^{163,165}Re, ^{165,166,167}Os, ^{169,171}Ir, ^{171,172}Pt, ¹⁷²Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹Pt(α); measured branching ratio. JOUR PRVCA 81 014306

A=164

- ¹⁶⁴Dy 2010NY01 NUCLEAR REACTIONS ¹⁶⁴Dy(³He, ³He'), (³He, α), E=38 MeV; measured continuum γ spectra, particle spectra, and (particle) γ -coin; deduced level density, radiative strength functions, contributions from giant dipole resonances, and integrated B(M1) strength of pygmy resonances. JOUR PRVCA 81 024325

KEYNUMBERS AND KEYWORDS

A=164 (continued)

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|-------------------|----------|--|
| ^{164}W | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2009SA49 | NUCLEAR REACTIONS $^{106}\text{Cd}(^{60}\text{Ni}, 3\text{p})$, E=270 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, $\gamma(\text{recoil})$ -, $\gamma\alpha$ -coin, $\gamma\gamma(\theta)$, DCO using JUROGAM array, RITU separator and GREAT spectrometer. ^{163}Ta ; deduced levels, J, π , multipolarities, rotational bands, and configurations. Comparison with cranked shell model and total-Routhian surface calculations. $^{162,163,164}\text{W}$, ^{162}Hf ; measured $E\gamma$. JOUR PRVCA 80 054316 |
| | 2009SA49 | RADIOACTIVITY ^{159}Hf , ^{163}Ta , $^{162,163,164}\text{W}(\alpha)$ [from $^{106}\text{Cd}(^{60}\text{Ni}, \text{X})$, E=270 MeV]; measured $E\alpha$. JOUR PRVCA 80 054316 |
| ^{164}Re | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| ^{164}Os | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |

A=165

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|-------------------|----------|--|
| ^{165}Tm | 2010TA03 | NUCLEAR REACTIONS ^{167}Er , $^{168}\text{Er}(\text{p}, \text{n})$, $^{167}\text{Er}(\text{p}, \text{n})$, $^{166}\text{Er}(\text{p}, 2\text{n})$, $\text{Ti}(\text{p}, \text{X})^{48}\text{V}$, E<15 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II, TALYS nuclear reaction model codes. JOUR ARISE 68 250 |
| ^{165}Re | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |
| ^{165}Os | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |

KEYNUMBERS AND KEYWORDS

A=165 (continued)

2010SC02 RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306

A=166

^{166}Er 2009WIZU NUCLEAR REACTIONS ^{154}Sm , $^{166}\text{Er}(^{16}\text{O}, ^{16}\text{O}')$, $E=55, 60, 65$ MeV; measured conversion electrons E_e , I_e after Coulomb excitation; deduced E , J , π , monopole strength, $B(E2)$, β -band, γ -band; calculated E , J , π , transition strengths. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P539,Wimmer

^{166}Os 2009HA42 RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, X)$, $E=342, 348$ MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310

2010SC02 RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306

A=167

^{167}Tm 2010TA03 NUCLEAR REACTIONS ^{167}Er , $^{168}\text{Er}(p, n)$, $^{167}\text{Er}(p, n)$, $^{166}\text{Er}(p, 2n)$, $\text{Ti}(p, X)^{48}\text{V}$, $E<15$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II, TALYS nuclear reaction model codes. JOUR ARISE 68 250

^{167}Re 2009HA42 RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, X)$, $E=342, 348$ MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310

2010SC02 RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306

^{167}Os 2009HA42 RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, X)$, $E=342, 348$ MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310

KEYNUMBERS AND KEYWORDS

A=167 (continued)

- 2010SC02 NUCLEAR REACTIONS $^{106}\text{Cd}(^{60}\text{Ni}, n2p)^{163}\text{W}$, E=270 MeV; $^{92}\text{Mo}(^{78}\text{Kr}, n\alpha2p)^{163}\text{W}$, E=380 MeV; $^{92}\text{Mo}(^{78}\text{Kr}, n2p)^{167}\text{Os}$, E=357, 365 MeV; $^{96}\text{Ru}(^{78}\text{Kr}, n2p)^{171}\text{Pt}$, E=348 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using the JUROGAM array, conversion electrons, σ ; deduced multiplicities, internal conversion coefficients. ^{163}W , ^{167}Os , ^{171}Pt ; deduced levels, J, π , half-lives. JOUR PRVCA 81 014306
- 2010SC02 RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306
- ^{167}Ir 2009HA42 RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, X)$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310

A=168

- ^{168}Tm 2010TA03 NUCLEAR REACTIONS ^{167}Er , $^{168}\text{Er}(p, n)$, $^{167}\text{Er}(p, n)$, $^{166}\text{Er}(p, 2n)$, $\text{Ti}(p, X)^{48}\text{V}$, E<15 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Comparison with ALICE-IPPE, EMPIRE-II, TALYS nuclear reaction model codes. JOUR ARISE 68 250
- ^{168}Hf 2009PIZX NUCLEAR REACTIONS $^{124}\text{Sn}(^{48}\text{Ti}, 4n)$, E=190 MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; deduced quadrupole moments, half-life along ground-state band, E0, E2 strengths. Compared with calculations of Bonnet et al. using X(5) and CBS. Confined β -soft (CBS) rotor model. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P524,Pietralla
- 2009YA21 NUCLEAR REACTIONS $^{96}\text{Zr}(^{76}\text{Ge}, 4n)$, E=310 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ (DCO) using Gammasphere array. ^{168}Hf ; deduced levels, J, π , bands, multipolarity, B(M1) / B(E2) ratios, configurations, and enhanced deformation band. Comparison with cranked shell-model calculations. JOUR PRVCA 80 064306
- ^{168}Os 2009HA42 RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, X)$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310
- 2010SC02 RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306
- ^{168}Ir 2009HA42 RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, X)$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310

KEYNUMBERS AND KEYWORDS

A=168 (continued)

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| 2010SC02 | RADIOACTIVITY | ^{162,163} W, ^{163,165} Re, ^{165,166,167} Os, ^{169,171} Ir, ^{171,172} Pt, ¹⁷² Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹ Pt(α); measured branching ratio. JOUR PRVCA 81 014306 |
| ¹⁶⁸ Pt | 2009HA42 | RADIOACTIVITY ^{160,160m} Ta, ^{164,164m} Re, ^{168,168m} Ir, ¹⁷² Au(α)[from ⁹⁶ Ru(⁷⁸ Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160} Hf, ^{160,164} W, ^{164,165,167,168} Os, ^{168,169,171} Ir, ^{169,170,171,172} Pt, ^{164,165} Re, ^{171,173} Au, ^{172,173} Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰ Ta, ¹⁶⁴ Re, ¹⁶⁸ Ir, ¹⁷² Au; deduced levels and isomers. JOUR PRVCA 80 064310 |

A=169

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| ¹⁶⁹ Ir | 2009HA42 | RADIOACTIVITY ^{160,160m} Ta, ^{164,164m} Re, ^{168,168m} Ir, ¹⁷² Au(α)[from ⁹⁶ Ru(⁷⁸ Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160} Hf, ^{160,164} W, ^{164,165,167,168} Os, ^{168,169,171} Ir, ^{169,170,171,172} Pt, ^{164,165} Re, ^{171,173} Au, ^{172,173} Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰ Ta, ¹⁶⁴ Re, ¹⁶⁸ Ir, ¹⁷² Au; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2010SC02 | RADIOACTIVITY ^{162,163} W, ^{163,165} Re, ^{165,166,167} Os, ^{169,171} Ir, ^{171,172} Pt, ¹⁷² Au(α); measured E α , I α ; deduced half-lives. ¹⁷¹ Pt(α); measured branching ratio. JOUR PRVCA 81 014306 |
| ¹⁶⁹ Pt | 2009HA42 | RADIOACTIVITY ^{160,160m} Ta, ^{164,164m} Re, ^{168,168m} Ir, ¹⁷² Au(α)[from ⁹⁶ Ru(⁷⁸ Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160} Hf, ^{160,164} W, ^{164,165,167,168} Os, ^{168,169,171} Ir, ^{169,170,171,172} Pt, ^{164,165} Re, ^{171,173} Au, ^{172,173} Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰ Ta, ¹⁶⁴ Re, ¹⁶⁸ Ir, ¹⁷² Au; deduced levels and isomers. JOUR PRVCA 80 064310 |

A=170

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| ¹⁷⁰ Pt | 2009HA42 | RADIOACTIVITY ^{160,160m} Ta, ^{164,164m} Re, ^{168,168m} Ir, ¹⁷² Au(α)[from ⁹⁶ Ru(⁷⁸ Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160} Hf, ^{160,164} W, ^{164,165,167,168} Os, ^{168,169,171} Ir, ^{169,170,171,172} Pt, ^{164,165} Re, ^{171,173} Au, ^{172,173} Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰ Ta, ¹⁶⁴ Re, ¹⁶⁸ Ir, ¹⁷² Au; deduced levels and isomers. JOUR PRVCA 80 064310 |
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A=171

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| ¹⁷¹ Er | 2008LEZO | NUCLEAR REACTIONS ¹⁷⁰ Er, ¹⁸⁰ Hf, ²⁴² Pu, ²³² Th(n, γ), E=reactor spectrum; measured E γ , I γ ; deduced ¹⁷¹ Er, ¹⁸¹ Hf, ²⁴³ Pu, ²³³ Pa integral σ ; compared to JEFF-3.1. CONF Nice (Nucl Data for Sci and Technol) Proc,P521 |
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KEYNUMBERS AND KEYWORDS

A=171 (*continued*)

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| ^{171}Lu | 2009SI34 | NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, \text{X})^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, γ (particle)-coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, \text{X})$ reaction. JOUR PRVCA 80 064603 |
| ^{171}Ir | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2010AN01 | RADIOACTIVITY ^{179}Tl , ^{175}Au , $^{179}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, 5n)$, E=232 MeV]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, J, π . JOUR JPGPE 37 035102 |
| | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |
| ^{171}Pt | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2010SC02 | NUCLEAR REACTIONS $^{106}\text{Cd}(^{60}\text{Ni}, n2p)^{163}\text{W}$, E=270 MeV; $^{92}\text{Mo}(^{78}\text{Kr}, n\alpha2p)^{163}\text{W}$, E=380 MeV; $^{92}\text{Mo}(^{78}\text{Kr}, n2p)^{167}\text{Os}$, E=357, 365 MeV; $^{96}\text{Ru}(^{78}\text{Kr}, n2p)^{171}\text{Pt}$, E=348 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using the JUROGAM array, conversion electrons, σ ; deduced multipolarities, internal conversion coefficients. ^{163}W , ^{167}Os , ^{171}Pt ; deduced levels, J, π , half-lives. JOUR PRVCA 81 014306 |
| | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |
| ^{171}Au | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured $E\alpha$, $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured $E\alpha$, $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |

A=172

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| ^{172}Tm | 2010DZ01 | NUCLEAR REACTIONS $^{175}\text{Lu}(n, 2n)$, (n, p) , (n, α) , E=13.5-14.6 MeV; $^{176}\text{Lu}(n, \alpha)$ E=13.5-14.6 MeV; $^{159}\text{Tb}(n, p)$, (n, α) , $(n, n'\alpha)$, $(n, 2n)$, E=13.5-14.6 MeV; $^{181}\text{Ta}(n, \gamma)$, E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured $E\gamma$, $I\gamma$, σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610 |
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KEYNUMBERS AND KEYWORDS

A=172 (*continued*)

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| ^{172}Yb | 2009HAZW | NUCLEAR REACTIONS $^{171,173}\text{Yb}(d, p\gamma)$, E=18.5 MeV; measured E_p , I_p , E_γ , I_γ , $p\gamma$ -coin.; deduced 4^+ to 2^+ γ intensities as a function of equivalent neutron energy, surrogate (n, γ) σ . Compared to data of Wisshak et al. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P445,Hatarik |
| | 2010HA03 | NUCLEAR REACTIONS $^{171,173}\text{Yb}(d, p\gamma)$, E=18.5 MeV; measured E_γ , I_γ , particle spectra, (particle) γ -coin using STARS array for particles and HPGe detectors for γ rays; deduced intensity ratios of γ rays in ^{172}Yb and ^{174}Yb , cross sections, and comparison with DICEBOX simulations. $^{171,173}\text{Yb}(n, \gamma)$, E=5-260 keV; comparison of neutron capture cross sections with those from (d, $p\gamma$) reaction using external surrogate ratio method. JOUR PRVCA 81 011602 |
| ^{172}Hf | 2009BE42 | NUCLEAR MOMENTS ^{172}Hf ; measured g factor of first 2^+ state using integral perturbed angular correlation method. Comparisons with g factors of neighboring even-even Hf nuclei and with predictions of several nuclear models including interacting boson approximation (IBA-2). JOUR PRVCA 80 057303 |
| | 2009BE42 | RADIOACTIVITY $^{172}\text{Ta}(\text{EC})$, (β^+) [from $^{165}\text{Ho}(^{12}\text{C}, 5n)$, E=85 MeV]; measured E_γ , I_γ , $\gamma\gamma$ -coin, and cascade I_γ as a function of angle and magnetic field. JOUR PRVCA 80 057303 |
| ^{172}Ta | 2009BE42 | RADIOACTIVITY $^{172}\text{Ta}(\text{EC})$, (β^+) [from $^{165}\text{Ho}(^{12}\text{C}, 5n)$, E=85 MeV]; measured E_γ , I_γ , $\gamma\gamma$ -coin, and cascade I_γ as a function of angle and magnetic field. JOUR PRVCA 80 057303 |
| ^{172}Pt | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured E_α , $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured E_α , $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured E_α , I_α ; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |
| ^{172}Au | 2009HA42 | RADIOACTIVITY $^{160,160m}\text{Ta}$, $^{164,164m}\text{Re}$, $^{168,168m}\text{Ir}$, $^{172}\text{Au}(\alpha)$ [from $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})$, E=342, 348 MeV]; measured E_α , $\alpha\gamma$ -correlations, and half-lives. $^{157,160}\text{Hf}$, $^{160,164}\text{W}$, $^{164,165,167,168}\text{Os}$, $^{168,169,171}\text{Ir}$, $^{169,170,171,172}\text{Pt}$, $^{164,165}\text{Re}$, $^{171,173}\text{Au}$, $^{172,173}\text{Hg}(\alpha)$; measured E_α , $\alpha\alpha$ -correlations of α -decaying pairs. ^{160}Ta , ^{164}Re , ^{168}Ir , ^{172}Au ; deduced levels and isomers. JOUR PRVCA 80 064310 |
| | 2009HA42 | NUCLEAR REACTIONS $^{96}\text{Ru}(^{78}\text{Kr}, \text{X})^{172}\text{Au} / ^{173}\text{Au}$, E=342, 348 MeV; measured E_γ , I_γ , $\gamma\gamma$ -, $\gamma\alpha$ -, $\gamma\alpha(\text{recoils})$ -coin and $\gamma(\theta)$. ^{172}Au ; deduced levels and multipolarity. Routhian surface calculations for ^{172}Au . JOUR PRVCA 80 064310 |
| | 2010SC02 | RADIOACTIVITY $^{162,163}\text{W}$, $^{163,165}\text{Re}$, $^{165,166,167}\text{Os}$, $^{169,171}\text{Ir}$, $^{171,172}\text{Pt}$, $^{172}\text{Au}(\alpha)$; measured E_α , I_α ; deduced half-lives. $^{171}\text{Pt}(\alpha)$; measured branching ratio. JOUR PRVCA 81 014306 |

KEYNUMBERS AND KEYWORDS

A=172 (continued)

¹⁷²Hg 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α)[from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310

A=173

¹⁷³Tm 2010DZ01 NUCLEAR REACTIONS ¹⁷⁵Lu(n, 2n), (n, p), (n, α), E=13.5-14.6 MeV; ¹⁷⁶Lu(n, α)E=13.5-14.6 MeV; ¹⁵⁹Tb(n, p), (n, α), (n, n' α), (n, 2n), E=13.5-14.6 MeV; ¹⁸¹Ta(n, γ), E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured E γ , I γ , σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610

¹⁷³Ta 2009SI34 NUCLEAR REACTIONS ¹⁶⁹Tm(¹²C, X)¹⁷¹Lu / ¹⁷³Ta / ¹⁷⁴Ta / ¹⁷⁵Ta / ¹⁷⁶W / ¹⁷⁶Re / ¹⁷⁷Re / ¹⁷⁸Re / ¹⁸⁰Ir / ¹⁸⁰Os / , E=5.6, 6.5 MeV / nucleon; measured α spectra, E γ , I γ , γ (particle)-coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for ¹⁶⁹Tm(¹⁶O, X) reaction. JOUR PRVCA 80 064603

¹⁷³Pt 2009AN20 RADIOACTIVITY ^{180,181}Pb(α) [from ¹⁴⁴Sm(⁴⁰Ca, xn), E not given]; measured E α , I α , (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ¹⁷⁷Hg; deduced levels, J, π . ¹⁷³Pt, ^{177,178}Hg, ¹⁸²Pb; measured E α . JOUR PRVCA 80 054322

¹⁷³Au 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α)[from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310

 2009HA42 NUCLEAR REACTIONS ⁹⁶Ru(⁷⁸Kr, X)¹⁷²Au / ¹⁷³Au, E=342, 348 MeV; measured E γ , I γ , $\gamma\gamma$ -, $\gamma\alpha$ -, $\gamma\alpha$ (recoils)-coin and $\gamma(\theta)$. ¹⁷²Au; deduced levels and multipolarity. Routhian surface calculations for ¹⁷²Au. JOUR PRVCA 80 064310

¹⁷³Hg 2009HA42 RADIOACTIVITY ^{160,160m}Ta, ^{164,164m}Re, ^{168,168m}Ir, ¹⁷²Au(α)[from ⁹⁶Ru(⁷⁸Kr, X), E=342, 348 MeV]; measured E α , $\alpha\gamma$ -correlations, and half-lives. ^{157,160}Hf, ^{160,164}W, ^{164,165,167,168}Os, ^{168,169,171}Ir, ^{169,170,171,172}Pt, ^{164,165}Re, ^{171,173}Au, ^{172,173}Hg(α); measured E α , $\alpha\alpha$ -correlations of α -decaying pairs. ¹⁶⁰Ta, ¹⁶⁴Re, ¹⁶⁸Ir, ¹⁷²Au; deduced levels and isomers. JOUR PRVCA 80 064310

KEYNUMBERS AND KEYWORDS

A=174

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|-------------------|----------|--|
| ^{174}Yb | 2009HAZW | NUCLEAR REACTIONS $^{171,173}\text{Yb}(d, p\gamma)$, E=18.5 MeV; measured E_p , I_p , E_γ , I_γ , $p\gamma$ -coin.; deduced 4^+ to 2^+ γ intensities as a function of equivalent neutron energy, surrogate (n, γ) σ . Compared to data of Wisshak et al. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P445,Hatarik |
| | 2010HA03 | NUCLEAR REACTIONS $^{171,173}\text{Yb}(d, p\gamma)$, E=18.5 MeV; measured E_γ , I_γ , particle spectra, (particle) γ -coin using STARS array for particles and HPGe detectors for γ rays; deduced intensity ratios of γ rays in ^{172}Yb and ^{174}Yb , cross sections, and comparison with DICEBOX simulations. $^{171,173}\text{Yb}(n, \gamma)$, E=5-260 keV; comparison of neutron capture cross sections with those from (d, $p\gamma$) reaction using external surrogate ratio method. JOUR PRVCA 81 011602 |
| ^{174}Lu | 2010DZ01 | NUCLEAR REACTIONS $^{175}\text{Lu}(n, 2n)$, (n, p), (n, α), E=13.5-14.6 MeV; $^{176}\text{Lu}(n, \alpha)$ E=13.5-14.6 MeV; $^{159}\text{Tb}(n, p)$, (n, α), (n, $n'\alpha$), (n, 2n), E=13.5-14.6 MeV; $^{181}\text{Ta}(n, \gamma)$, E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured E_γ , I_γ , σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610 |
| ^{174}Ta | 2009SI34 | NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, X)^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, E_γ , I_γ , γ (particle)-coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, X)$ reaction. JOUR PRVCA 80 064603 |

A=175

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|-------------------|----------|---|
| ^{175}Yb | 2010DZ01 | NUCLEAR REACTIONS $^{175}\text{Lu}(n, 2n)$, (n, p), (n, α), E=13.5-14.6 MeV; $^{176}\text{Lu}(n, \alpha)$ E=13.5-14.6 MeV; $^{159}\text{Tb}(n, p)$, (n, α), (n, $n'\alpha$), (n, 2n), E=13.5-14.6 MeV; $^{181}\text{Ta}(n, \gamma)$, E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured E_γ , I_γ , σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610 |
| ^{175}Hf | 2009N012 | NUCLEAR REACTIONS $^{174,176,177,178,179,180}\text{Hf}(n, \gamma)$, E=0.002-50 keV; measured transmission and capture σ at the GELINA white neutron source facility; deduced resonance parameters using Reich-Moore interpretation and the REFIT code. Comparison with data. JOUR NUPAB 831 106 |
| ^{175}Ta | 2009SI34 | NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, X)^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, E_γ , I_γ , γ (particle)-coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, X)$ reaction. JOUR PRVCA 80 064603 |
| ^{175}Os | 2010WA02 | RADIOACTIVITY $^{175,176}\text{Ir}(\text{EC})$ [from $^{146}\text{Nd}(^{35}\text{Cl}, X)$, E=210 MeV / nucleon]; measured reaction products, x-rays, E_γ , I_γ ; deduced decay constants, $T_{1/2}$, long-lived isomeric state in ^{175}Ir . JOUR CPLEE 27 022301 |

KEYNUMBERS AND KEYWORDS

A=175 (continued)

^{175}Ir	2010WA02	RADIOACTIVITY $^{175,176}\text{Ir}(\text{EC})$ [from $^{146}\text{Nd}(^{35}\text{Cl}, \text{X})$, E=210 MeV / nucleon]; measured reaction products, x-rays, $E\gamma$, $I\gamma$; deduced decay constants, $T_{1/2}$, long-lived isomeric state in ^{175}Ir . JOUR CPLEE 27 022301
^{175}Au	2010AN01	RADIOACTIVITY ^{179}Tl , ^{175}Au , $^{179}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, 5n)$, E=232 MeV]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, J, π . JOUR JPGPE 37 035102
^{175}Hg	2010AN01	RADIOACTIVITY ^{179}Tl , ^{175}Au , $^{179}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, 5n)$, E=232 MeV]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, J, π . JOUR JPGPE 37 035102

A=176

^{176}Lu	2010DR01	NUCLEAR REACTIONS $^{176}\text{Lu}(^{136}\text{Xe}, ^{136}\text{Xe}'\gamma)$, E=6.0 MeV / nucleon; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin using the Gammasphere array. Beam-on and beam-off measurements. ^{176}Lu ; deduced levels, J, π , multipolarity, transition strengths, partial γ -ray widths, connection between high-K and low-K bands, and astrophysical significance for the s-process nucleus. JOUR PRVCA 81 011301
^{176}W	2009SI34	NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, \text{X})^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, $\gamma(\text{particle})$ -coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, \text{X})$ reaction. JOUR PRVCA 80 064603
^{176}Re	2009SI34	NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, \text{X})^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, $\gamma(\text{particle})$ -coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, \text{X})$ reaction. JOUR PRVCA 80 064603
^{176}Os	2010WA02	RADIOACTIVITY $^{175,176}\text{Ir}(\text{EC})$ [from $^{146}\text{Nd}(^{35}\text{Cl}, \text{X})$, E=210 MeV / nucleon]; measured reaction products, x-rays, $E\gamma$, $I\gamma$; deduced decay constants, $T_{1/2}$, long-lived isomeric state in ^{175}Ir . JOUR CPLEE 27 022301
^{176}Ir	2010WA02	RADIOACTIVITY $^{175,176}\text{Ir}(\text{EC})$ [from $^{146}\text{Nd}(^{35}\text{Cl}, \text{X})$, E=210 MeV / nucleon]; measured reaction products, x-rays, $E\gamma$, $I\gamma$; deduced decay constants, $T_{1/2}$, long-lived isomeric state in ^{175}Ir . JOUR CPLEE 27 022301
^{176}Hg	2009AN20	RADIOACTIVITY $^{180,181}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, \text{xn})$, E not given]; measured $E\alpha$, $I\alpha$, (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ^{177}Hg ; deduced levels, J, π . ^{173}Pt , $^{177,178}\text{Hg}$, ^{182}Pb ; measured $E\alpha$. JOUR PRVCA 80 054322

KEYNUMBERS AND KEYWORDS

A=177

^{177}Lu	2008BEZO	NUCLEAR REACTIONS $^{177}\text{Lu}(n, n')$, E=reactor spectrum; measured $E\gamma$, $I\gamma$; deduced σ . Target in isomeric state, superelastic scattering. CONF Nice (Nucl Data for Sci and Technol) Proc,P463
^{177}Hf	2009N012	NUCLEAR REACTIONS $^{174,176,177,178,179,180}\text{Hf}(n, \gamma)$, E=0.002-50 keV; measured transmission and capture σ at the GELINA white neutron source facility; deduced resonance parameters using Reich-Moore interpretation and the REFIT code. Comparison with data. JOUR NUPAB 831 106
^{177}Re	2009SI34	NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, X)^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, γ (particle)-coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, X)$ reaction. JOUR PRVCA 80 064603
^{177}Hg	2009AN20	RADIOACTIVITY $^{180,181}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, xn)$, E not given]; measured $E\alpha$, $I\alpha$, (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ^{177}Hg ; deduced levels, J, π . ^{173}Pt , $^{177,178}\text{Hg}$, ^{182}Pb ; measured $E\alpha$. JOUR PRVCA 80 054322

A=178

^{178}Lu	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(n, x)^{48}\text{V}$, $^{58}\text{Ni}(n, p\alpha)$, $^{58}\text{Ni}(n, x)^{56}\text{Co}$, $^{63}\text{Cu}(n, p\alpha)$, $^{181}\text{Ta}(n, \alpha)$, $^{181}\text{Ta}(n, p)$, $^{181}\text{Ta}(n, x)^{180}\text{Hf}$, $^{181}\text{Ta}(n, 2n)$, $^{182,183,184,185}\text{W}(n, p)$, $^{183}\text{W}(n, x)^{182}\text{Ta}$, $^{184}\text{W}(n, x)^{183}\text{Ta}$, $^{186}\text{W}(n, x)^{185}\text{Ta}$, $^{186}\text{W}(n, 2n)$, $^{184,186}\text{W}(n, \alpha)$, E=13.8-20.5 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
	2010KR02	NUCLEAR REACTIONS ^{27}Al , ^{197}Au , ^{59}Co , In, $^{181}\text{Ta}(n, \gamma)$, (n, α), (n, xn), E=1 GeV; $^{191,192,193,194,196,198}\text{Au}$, ^{24}Na ; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$; deduced yields, σ . JOUR NIMAE 615 70
^{178}Hf	2009N012	NUCLEAR REACTIONS $^{174,176,177,178,179,180}\text{Hf}(n, \gamma)$, E=0.002-50 keV; measured transmission and capture σ at the GELINA white neutron source facility; deduced resonance parameters using Reich-Moore interpretation and the REFIT code. Comparison with data. JOUR NUPAB 831 106
^{178}Re	2009SI34	NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, X)^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, E=5.6, 6.5 MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, γ (particle)-coin; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, X)$ reaction. JOUR PRVCA 80 064603

KEYNUMBERS AND KEYWORDS

A=178 (continued)

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| ^{178}Os | 2009KU24 | NUCLEAR REACTIONS $^{165}\text{Ho}(^{20}\text{Ne}, \text{p6n})$, $E=150$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, DCO, and linear polarizations. ^{178}Os ; deduced levels, J, π , bands, multipolarities, and configurations. Comparison with projected angular momentum deformed Hartree-Fock and cranked Woods-Saxon model calculations. JOUR PRVCA 80 054319 |
| ^{178}Hg | 2009AN20 | RADIOACTIVITY $^{180,181}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, \text{xn})$, E not given]; measured $E\alpha$, $I\alpha$, (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ^{177}Hg ; deduced levels, J, π . ^{173}Pt , $^{177,178}\text{Hg}$, ^{182}Pb ; measured $E\alpha$. JOUR PRVCA 80 054322 |

A=179

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|-------------------|----------|---|
| ^{179}Hf | 2009N012 | NUCLEAR REACTIONS $^{174,176,177,178,179,180}\text{Hf}(\text{n}, \gamma)$, $E=0.002$ -50 keV; measured transmission and capture σ at the GELINA white neutron source facility; deduced resonance parameters using Reich-Moore interpretation and the REFIT code. Comparison with data. JOUR NUPAB 831 106 |
| ^{179}Tl | 2010AN01 | RADIOACTIVITY ^{179}Tl , ^{175}Au , $^{179}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, 5\text{n})$, $E=232$ MeV]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, J, π . JOUR JPGPE 37 035102 |
| ^{179}Pb | 2010AN01 | RADIOACTIVITY ^{179}Tl , ^{175}Au , $^{179}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, 5\text{n})$, $E=232$ MeV]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, J, π . JOUR JPGPE 37 035102 |

A=180

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|-------------------|----------|---|
| ^{180}Hf | 2008SEZT | NUCLEAR REACTIONS $^{50}\text{Cr}(\text{n}, \text{x})^{48}\text{V}$, $^{58}\text{Ni}(\text{n}, \text{p}\alpha)$, $^{58}\text{Ni}(\text{n}, \text{x})^{56}\text{Co}$, $^{63}\text{Cu}(\text{n}, \text{p}\alpha)$, $^{181}\text{Ta}(\text{n}, \alpha)$, $^{181}\text{Ta}(\text{n}, \text{p})$, $^{181}\text{Ta}(\text{n}, \text{x})^{180}\text{Hf}$, $^{181}\text{Ta}(\text{n}, 2\text{n})$, $^{182,183,184,185}\text{W}(\text{n}, \text{p})$, $^{183}\text{W}(\text{n}, \text{x})^{182}\text{Ta}$, $^{184}\text{W}(\text{n}, \text{x})^{183}\text{Ta}$, $^{186}\text{W}(\text{n}, \text{x})^{185}\text{Ta}$, $^{186}\text{W}(\text{n}, 2\text{n})$, $^{184,186}\text{W}(\text{n}, \alpha)$, $E=13.8$ -20.5 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559 |
| | 2009N012 | NUCLEAR REACTIONS $^{174,176,177,178,179,180}\text{Hf}(\text{n}, \gamma)$, $E=0.002$ -50 keV; measured transmission and capture σ at the GELINA white neutron source facility; deduced resonance parameters using Reich-Moore interpretation and the REFIT code. Comparison with data. JOUR NUPAB 831 106 |

KEYNUMBERS AND KEYWORDS

A=180 (continued)

^{180}Ta	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(n, x)^{48}\text{V}$, $^{58}\text{Ni}(n, p\alpha)$, $^{58}\text{Ni}(n, x)^{56}\text{Co}$, $^{63}\text{Cu}(n, p\alpha)$, $^{181}\text{Ta}(n, \alpha)$, $^{181}\text{Ta}(n, p)$, $^{181}\text{Ta}(n, x)^{180}\text{Hf}$, $^{181}\text{Ta}(n, 2n)$, $^{182,183,184,185}\text{W}(n, p)$, $^{183}\text{W}(n, x)^{182}\text{Ta}$, $^{184}\text{W}(n, x)^{183}\text{Ta}$, $^{186}\text{W}(n, x)^{185}\text{Ta}$, $^{186}\text{W}(n, 2n)$, $^{184,186}\text{W}(n, \alpha)$, $E=13.8\text{-}20.5$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
^{180}Os	2009SI34	NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, X)^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, $E=5.6, 6.5$ MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, $\gamma(\text{particle})\text{-coin}$; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, X)$ reaction. JOUR PRVCA 80 064603
^{180}Ir	2009SI34	NUCLEAR REACTIONS $^{169}\text{Tm}(^{12}\text{C}, X)^{171}\text{Lu} / ^{173}\text{Ta} / ^{174}\text{Ta} / ^{175}\text{Ta} / ^{176}\text{W} / ^{176}\text{Re} / ^{177}\text{Re} / ^{178}\text{Re} / ^{180}\text{Ir} / ^{180}\text{Os} /$, $E=5.6, 6.5$ MeV / nucleon; measured α spectra, $E\gamma$, $I\gamma$, $\gamma(\text{particle})\text{-coin}$; deduced yields, spin distributions, and role of angular momentum on yields in incomplete fusion. Comparison with data for $^{169}\text{Tm}(^{16}\text{O}, X)$ reaction. JOUR PRVCA 80 064603
^{180}Pb	2009AN20	RADIOACTIVITY $^{180,181}\text{Pb}(\alpha)$ [from $^{144}\text{Sm}(^{40}\text{Ca}, xn)$, E not given]; measured $E\alpha$, $I\alpha$, (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ^{177}Hg ; deduced levels, J , π . ^{173}Pt , $^{177,178}\text{Hg}$, ^{182}Pb ; measured $E\alpha$. JOUR PRVCA 80 054322

A=181

^{181}Hf	2008LEZO	NUCLEAR REACTIONS ^{170}Er , ^{180}Hf , ^{242}Pu , $^{232}\text{Th}(n, \gamma)$, $E=\text{reactor}$ spectrum; measured $E\gamma$, $I\gamma$; deduced ^{171}Er , ^{181}Hf , ^{243}Pu , ^{233}Pa integral σ ; compared to JEFF-3.1. CONF Nice (Nucl Data for Sci and Technol) Proc,P521
	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(n, x)^{48}\text{V}$, $^{58}\text{Ni}(n, p\alpha)$, $^{58}\text{Ni}(n, x)^{56}\text{Co}$, $^{63}\text{Cu}(n, p\alpha)$, $^{181}\text{Ta}(n, \alpha)$, $^{181}\text{Ta}(n, p)$, $^{181}\text{Ta}(n, x)^{180}\text{Hf}$, $^{181}\text{Ta}(n, 2n)$, $^{182,183,184,185}\text{W}(n, p)$, $^{183}\text{W}(n, x)^{182}\text{Ta}$, $^{184}\text{W}(n, x)^{183}\text{Ta}$, $^{186}\text{W}(n, x)^{185}\text{Ta}$, $^{186}\text{W}(n, 2n)$, $^{184,186}\text{W}(n, \alpha)$, $E=13.8\text{-}20.5$ MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
	2009N012	NUCLEAR REACTIONS $^{174,176,177,178,179,180}\text{Hf}(n, \gamma)$, $E=0.002\text{-}50$ keV; measured transmission and capture σ at the GELINA white neutron source facility; deduced resonance parameters using Reich-Moore interpretation and the REFIT code. Comparison with data. JOUR NUPAB 831 106

KEYNUMBERS AND KEYWORDS

A=181 (continued)

¹⁸¹Pb 2009AN20 RADIOACTIVITY ^{180,181}Pb(α) [from ¹⁴⁴Sm(⁴⁰Ca, xn), E not given]; measured E α , I α , (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ¹⁷⁷Hg; deduced levels, J, π . ¹⁷³Pt, ^{177,178}Hg, ¹⁸²Pb; measured E α . JOUR PRVCA 80 054322

A=182

¹⁸²Ta 2008SEZT NUCLEAR REACTIONS ⁵⁰Cr(n, x)⁴⁸V, ⁵⁸Ni(n, p α), ⁵⁸Ni(n, x)⁵⁶Co, ⁶³Cu(n, p α), ¹⁸¹Ta(n, α), ¹⁸¹Ta(n, p), ¹⁸¹Ta(n, x)¹⁸⁰Hf, ¹⁸¹Ta(n, 2n), ^{182,183,184,185}W(n, p), ¹⁸³W(n, x)¹⁸²Ta, ¹⁸⁴W(n, x)¹⁸³Ta, ¹⁸⁶W(n, x)¹⁸⁵Ta, ¹⁸⁶W(n, 2n), ^{184,186}W(n, α), E=13.8-20.5 MeV; measured E γ , I γ ; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559

 2010DZ01 NUCLEAR REACTIONS ¹⁷⁵Lu(n, 2n), (n, p), (n, α), E=13.5-14.6 MeV; ¹⁷⁶Lu(n, α)E=13.5-14.6 MeV; ¹⁵⁹Tb(n, p), (n, α), (n, n' α), (n, 2n), E=13.5-14.6 MeV; ¹⁸¹Ta(n, γ), E=0.0019, 0.0587, 0.1445, 2.850, 14.340 MeV; measured E γ , I γ , σ by activation technique, and isomeric ratios. Natural Lu, Tb and Ta targets. Comparison with values from TALYS-1.0 code. JOUR PRVCA 81 014610

 2010KR02 NUCLEAR REACTIONS ²⁷Al, ¹⁹⁷Au, ⁵⁹Co, In, ¹⁸¹Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198}Au, ²⁴Na; measured E α , I α , E γ , I γ ; deduced yields, σ . JOUR NIMAE 615 70

¹⁸²Hg 2009PEZY NUCLEAR REACTIONS ⁹⁶Mo(⁸⁸Sr, 2n), E=351 MeV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced decay curves of yrast transitions, quadrupole moments; ¹⁰⁷Ag(¹⁸⁴Hg, ¹⁸⁴Hg'), E=2.85 MeV / nucleon; ¹²⁰Sn(¹⁸⁴Hg, ¹⁸⁴Hg'), E=2.85 MeV / nucleon; ¹⁰⁷Ag(¹⁸⁶Hg, ¹⁸⁶Hg'), E=2.85 MeV / nucleon; ¹²⁰Sn(¹⁸⁶Hg, ¹⁸⁶Hg'), E=2.85 MeV / nucleon; ¹⁰⁷Ag(¹⁸⁸Hg, ¹⁸⁸Hg'), E=2.85 MeV / nucleon; ¹²⁰Sn(¹⁸⁸Hg, ¹⁸⁸Hg'), E=2.85 MeV / nucleon; measured E γ , I γ , particle- γ -coin. Plunger device with JUROGAM + RITU + GREAT, matrix E2 elements to be extracted. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P414, Petts

 2010SC03 NUCLEAR REACTIONS ⁹⁶Mo(⁸⁸Sr, 2n), E=310 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, level half-lives by recoil distance Doppler-shift (RDDS) method using JUROGAM array. ¹⁸²Hg; deduced levels, J, π , transition probabilities, transition quadrupole moments, quadrupole deformation parameters, transition dipole moments, and octupole collectivity. Systematics of odd-spin yrast states and low-lying positive parity states in even A=176-206 Hg isotopes. JOUR PRVCA 81 014310

¹⁸²Pb 2009AN20 RADIOACTIVITY ^{180,181}Pb(α) [from ¹⁴⁴Sm(⁴⁰Ca, xn), E not given]; measured E α , I α , (evaporation residues) α -, $\alpha\gamma$ -coin, α - α correlations, and half-lives using SHIP at GSI facility; deduced branching ratios and α -reduced widths. ¹⁷⁷Hg; deduced levels, J, π . ¹⁷³Pt, ^{177,178}Hg, ¹⁸²Pb; measured E α . JOUR PRVCA 80 054322

KEYNUMBERS AND KEYWORDS

A=183

^{183}Hf	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(\text{n}, \text{x})^{48}\text{V}$, $^{58}\text{Ni}(\text{n}, \text{p}\alpha)$, $^{58}\text{Ni}(\text{n}, \text{x})^{56}\text{Co}$, $^{63}\text{Cu}(\text{n}, \text{p}\alpha)$, $^{181}\text{Ta}(\text{n}, \alpha)$, $^{181}\text{Ta}(\text{n}, \text{p})$, $^{181}\text{Ta}(\text{n}, \text{x})^{180}\text{Hf}$, $^{181}\text{Ta}(\text{n}, 2\text{n})$, $^{182,183,184,185}\text{W}(\text{n}, \text{p})$, $^{183}\text{W}(\text{n}, \text{x})^{182}\text{Ta}$, $^{184}\text{W}(\text{n}, \text{x})^{183}\text{Ta}$, $^{186}\text{W}(\text{n}, \text{x})^{185}\text{Ta}$, $^{186}\text{W}(\text{n}, 2\text{n})$, $^{184,186}\text{W}(\text{n}, \alpha)$, E=13.8-20.5 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
^{183}Ta	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(\text{n}, \text{x})^{48}\text{V}$, $^{58}\text{Ni}(\text{n}, \text{p}\alpha)$, $^{58}\text{Ni}(\text{n}, \text{x})^{56}\text{Co}$, $^{63}\text{Cu}(\text{n}, \text{p}\alpha)$, $^{181}\text{Ta}(\text{n}, \alpha)$, $^{181}\text{Ta}(\text{n}, \text{p})$, $^{181}\text{Ta}(\text{n}, \text{x})^{180}\text{Hf}$, $^{181}\text{Ta}(\text{n}, 2\text{n})$, $^{182,183,184,185}\text{W}(\text{n}, \text{p})$, $^{183}\text{W}(\text{n}, \text{x})^{182}\text{Ta}$, $^{184}\text{W}(\text{n}, \text{x})^{183}\text{Ta}$, $^{186}\text{W}(\text{n}, \text{x})^{185}\text{Ta}$, $^{186}\text{W}(\text{n}, 2\text{n})$, $^{184,186}\text{W}(\text{n}, \alpha)$, E=13.8-20.5 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559

A=184

^{184}Ta	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(\text{n}, \text{x})^{48}\text{V}$, $^{58}\text{Ni}(\text{n}, \text{p}\alpha)$, $^{58}\text{Ni}(\text{n}, \text{x})^{56}\text{Co}$, $^{63}\text{Cu}(\text{n}, \text{p}\alpha)$, $^{181}\text{Ta}(\text{n}, \alpha)$, $^{181}\text{Ta}(\text{n}, \text{p})$, $^{181}\text{Ta}(\text{n}, \text{x})^{180}\text{Hf}$, $^{181}\text{Ta}(\text{n}, 2\text{n})$, $^{182,183,184,185}\text{W}(\text{n}, \text{p})$, $^{183}\text{W}(\text{n}, \text{x})^{182}\text{Ta}$, $^{184}\text{W}(\text{n}, \text{x})^{183}\text{Ta}$, $^{186}\text{W}(\text{n}, \text{x})^{185}\text{Ta}$, $^{186}\text{W}(\text{n}, 2\text{n})$, $^{184,186}\text{W}(\text{n}, \alpha)$, E=13.8-20.5 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
^{184}W	2008HAZP	RADIOACTIVITY $^{184}\text{Re}(\beta^+)$ [from ^{185}Re]; measured $E\gamma$, $I\gamma(\text{t})$; deduced ^{184}Re half-life, isomeric transition half-life. CONF Nice (Nucl Data for Sci and Technol) Proc,P73
^{184}Re	2008HAZP	NUCLEAR REACTIONS $^{185}\text{Re}(\gamma, \text{n})$, E=3.3-16.7 MeV; measured ^{184}Re $E\gamma$, $I\gamma(\text{t})$; calculated ^{184}Re ground-state σ , isomeric σ . CONF Nice (Nucl Data for Sci and Technol) Proc,P73
	2008HAZP	RADIOACTIVITY $^{184}\text{Re}(\beta^+)$ [from ^{185}Re]; measured $E\gamma$, $I\gamma(\text{t})$; deduced ^{184}Re half-life, isomeric transition half-life. CONF Nice (Nucl Data for Sci and Technol) Proc,P73

A=185

^{185}Ta	2008SEZT	NUCLEAR REACTIONS $^{50}\text{Cr}(\text{n}, \text{x})^{48}\text{V}$, $^{58}\text{Ni}(\text{n}, \text{p}\alpha)$, $^{58}\text{Ni}(\text{n}, \text{x})^{56}\text{Co}$, $^{63}\text{Cu}(\text{n}, \text{p}\alpha)$, $^{181}\text{Ta}(\text{n}, \alpha)$, $^{181}\text{Ta}(\text{n}, \text{p})$, $^{181}\text{Ta}(\text{n}, \text{x})^{180}\text{Hf}$, $^{181}\text{Ta}(\text{n}, 2\text{n})$, $^{182,183,184,185}\text{W}(\text{n}, \text{p})$, $^{183}\text{W}(\text{n}, \text{x})^{182}\text{Ta}$, $^{184}\text{W}(\text{n}, \text{x})^{183}\text{Ta}$, $^{186}\text{W}(\text{n}, \text{x})^{185}\text{Ta}$, $^{186}\text{W}(\text{n}, 2\text{n})$, $^{184,186}\text{W}(\text{n}, \alpha)$, E=13.8-20.5 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559
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KEYNUMBERS AND KEYWORDS

A=185 (continued)

¹⁸⁵W 2008SEZT NUCLEAR REACTIONS ⁵⁰Cr(n, x)⁴⁸V, ⁵⁸Ni(n, pα), ⁵⁸Ni(n, x)⁵⁶Co, ⁶³Cu(n, pα), ¹⁸¹Ta(n, α), ¹⁸¹Ta(n, p), ¹⁸¹Ta(n, x)¹⁸⁰Hf, ¹⁸¹Ta(n, 2n), ^{182,183,184,185}W(n, p), ¹⁸³W(n, x)¹⁸²Ta, ¹⁸⁴W(n, x)¹⁸³Ta, ¹⁸⁶W(n, x)¹⁸⁵Ta, ¹⁸⁶W(n, 2n), ^{184,186}W(n, α), E=13.8-20.5 MeV; measured Eγ, Iγ; deduced σ. Compared to published data, TALYS and EMPIRE calculations, EAF-2003, EAF-2005, EAF-2007, ADL-3T, JEFF-3.1, JENDL-3.3, JENDL-ACT, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P559

A=186

¹⁸⁶Hf 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ; deduced isomers and half-lives. JOUR PRVCA 80 064308

¹⁸⁶Os 2009PHZY NUCLEAR REACTIONS ^{185,187}Re(³He, d), E=30 MeV; measured E(particle), I(particle), θ(particle); deduced dσ(θ), rotational bands; calculated dσ(θ), rotational bands using DWBA. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P342,Phillips

A=187

¹⁸⁷Hf 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ; deduced isomers and half-lives. JOUR PRVCA 80 064308

¹⁸⁷Os 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured Eγ, Iγ, fission fragments; deduced σ. JOUR ARISE 68 643

A=188

¹⁸⁸Hf 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ; deduced isomers and half-lives. JOUR PRVCA 80 064308

¹⁸⁸Ta 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ; deduced isomers and half-lives. JOUR PRVCA 80 064308

A=188 (continued)

- 2009AL30 RADIOACTIVITY $^{188,190,192}\text{Ta}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=1 GeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\beta\gamma$ correlations, and half-lives using GSI Fragment separator, MUSIC ionization chamber; and RISING array. $^{188,190,192}\text{W}$; deduced levels, J, π , logft. Comparison with interacting boson approximation (IBA-1) calculations for ^{190}W . Z=56-80, N=84-122; discussed systematics of first 2+ and 4+ states, B(E2), and γ deformation parameter in even-even nuclei. JOUR PRVCA 80 064308
- ^{188}W 2009AL30 RADIOACTIVITY $^{188,190,192}\text{Ta}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=1 GeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\beta\gamma$ correlations, and half-lives using GSI Fragment separator, MUSIC ionization chamber; and RISING array. $^{188,190,192}\text{W}$; deduced levels, J, π , logft. Comparison with interacting boson approximation (IBA-1) calculations for ^{190}W . Z=56-80, N=84-122; discussed systematics of first 2+ and 4+ states, B(E2), and γ deformation parameter in even-even nuclei. JOUR PRVCA 80 064308
- ^{188}Re 2009BAZS NUCLEAR REACTIONS $^{187}\text{Re}(n, \gamma)$, E=reactor spectrum; measured E_γ , I_γ , $\gamma\gamma$ -coin.; deduced E, J, π , low-energy bands, rotational bands; calculated E, J, π using rotor plus two quasiparticles. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P609,Balodis
- ^{188}Os 2009PHZY NUCLEAR REACTIONS $^{185,187}\text{Re}(^3\text{He}, d)$, E=30 MeV; measured E(particle), I(particle), θ (particle); deduced $d\sigma(\theta)$, rotational bands; calculated $d\sigma(\theta)$, rotational bands using DWBA. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P342,Phillips
- 2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb, $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, E=0.001-1 MeV; measured E_γ , I_γ , fission fragments; deduced σ . JOUR ARISE 68 643
- ^{188}Ir 2008COZX NUCLEAR REACTIONS $^{191}\text{Ir}(n, \gamma)$, E \approx 0-20 MeV; $^{191}\text{Ir}(n, n')$, E \approx 0-20 MeV; $^{191}\text{Ir}(n, 2n)$, E \approx 5-25 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin.; deduced σ , $^{190,191}\text{Ir}$ isomeric transition, role of metastable states; calculated σ , σ (isomeric transition) using FKK-GNASH and exciton model; $^{191}\text{Ir}(n, 2n)$, $^{191}\text{Ir}(n, 3n)$, $^{191}\text{Ir}(n, 4n)$, E \approx 5-35 MeV; calculated σ . Compared to data and evaluations. GEANIE facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P247
- ^{188}Pb 2010I001 NUCLEAR MOMENTS ^{188}Pb ; measured g factors using time-differential perturbed angular distribution method. Systematics of g factors for 12+ and 13 / 2+ states in Pb nuclei from A=183-207. Rotational model interpretation. JOUR PRVCA 81 024323
- 2010I001 NUCLEAR REACTIONS $^{164}\text{Er}(^{28}\text{Si}, 4n)^{188}\text{Pb}$, E=143 MeV; measured E_γ , I_γ , half-life and g factors. JOUR PRVCA 81 024323

KEYNUMBERS AND KEYWORDS

A=189

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| ^{189}Hf | 2009AL30 | NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308 |
| ^{189}Ta | 2009AL30 | NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308 |
| ^{189}Os | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb, $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(\text{n}, \gamma)$, E=0.001-1 MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| ^{189}Ir | 2008COZX | NUCLEAR REACTIONS $^{191}\text{Ir}(\text{n}, \gamma)$, E \approx 0-20 MeV; $^{191}\text{Ir}(\text{n}, \text{n}')$, E \approx 0-20 MeV; $^{191}\text{Ir}(\text{n}, 2\text{n})$, E \approx 5-25 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ , $^{190,191}\text{Ir}$ isomeric transition, role of metastable states; calculated σ , σ (isomeric transition) using FKK-GNASH and exciton model; $^{191}\text{Ir}(\text{n}, 2\text{n})$, $^{191}\text{Ir}(\text{n}, 3\text{n})$, $^{191}\text{Ir}(\text{n}, 4\text{n})$, E \approx 5-35 MeV; calculated σ . Compared to data and evaluations. GEANIE facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P247 |

A=190

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| ^{190}Ta | 2009AL30 | NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308 |
| | 2009AL30 | RADIOACTIVITY $^{188,190,192}\text{Ta}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=1 GeV / nucleon]; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\beta\gamma$ correlations, and half-lives using GSI Fragment separator, MUSIC ionization chamber; and RISING array. $^{188,190,192}\text{W}$; deduced levels, J, π , logft. Comparison with interacting boson approximation (IBA-1) calculations for ^{190}W . Z=56-80, N=84-122; discussed systematics of first 2+ and 4+ states, B(E2), and γ deformation parameter in even-even nuclei. JOUR PRVCA 80 064308 |
| ^{190}W | 2009AL30 | NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308 |

KEYNUMBERS AND KEYWORDS

A=190 (continued)

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| | 2009AL30 | RADIOACTIVITY $^{188,190,192}\text{Ta}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, $E=1$ GeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\beta\gamma$ correlations, and half-lives using GSI Fragment separator, MUSIC ionization chamber; and RISING array. $^{188,190,192}\text{W}$; deduced levels, J , π , logft. Comparison with interacting boson approximation (IBA-1) calculations for ^{190}W . $Z=56-80$, $N=84-122$; discussed systematics of first $2+$ and $4+$ states, $B(E2)$, and γ deformation parameter in even-even nuclei. JOUR PRVCA 80 064308 |
| ^{190}Ir | 2008COZX | NUCLEAR REACTIONS $^{191}\text{Ir}(n, \gamma)$, $E\approx 0-20$ MeV; $^{191}\text{Ir}(n, n')$, $E\approx 0-20$ MeV; $^{191}\text{Ir}(n, 2n)$, $E\approx 5-25$ MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin.; deduced σ , $^{190,191}\text{Ir}$ isomeric transition, role of metastable states; calculated σ , σ (isomeric transition) using FKK-GNASH and exciton model; $^{191}\text{Ir}(n, 2n)$, $^{191}\text{Ir}(n, 3n)$, $^{191}\text{Ir}(n, 4n)$, $E\approx 5-35$ MeV; calculated σ . Compared to data and evaluations. GEANIE facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P247 |
| | 2008VLZZ | NUCLEAR REACTIONS $^{72,74}\text{Ge}(n, \alpha)$, $E=9.6, 10.6, 11.1, 11.4$ MeV; $^{76}\text{Ge}(n, 2n)$, $E=9.6, 10.6, 11.1, 11.4$ MeV; measured E_γ , I_γ ; deduced σ isomer, σ ground state; calculated σ isomer, σ ground state using EMPIRE; $^{191}\text{Ir}(n, 2n)$, $E=10.0, 10.5, 11.0, 11.3$ MeV; measured E_γ , $I_\gamma(t)$; deduced σ isomer, σ ground state; calculated σ isomer, σ ground state using STAPRE-F. Compared to other data. CONF Nice (Nucl Data for Sci and Technol) Proc,P471 |

A=191

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|-------------------|----------|---|
| ^{191}Ta | 2009AL30 | NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, $E=1$ GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308 |
| ^{191}W | 2009AL30 | NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, $E=1$ GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308 |
| ^{191}Ir | 2008COZX | NUCLEAR REACTIONS $^{191}\text{Ir}(n, \gamma)$, $E\approx 0-20$ MeV; $^{191}\text{Ir}(n, n')$, $E\approx 0-20$ MeV; $^{191}\text{Ir}(n, 2n)$, $E\approx 5-25$ MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin.; deduced σ , $^{190,191}\text{Ir}$ isomeric transition, role of metastable states; calculated σ , σ (isomeric transition) using FKK-GNASH and exciton model; $^{191}\text{Ir}(n, 2n)$, $^{191}\text{Ir}(n, 3n)$, $^{191}\text{Ir}(n, 4n)$, $E\approx 5-35$ MeV; calculated σ . Compared to data and evaluations. GEANIE facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P247 |
| ^{191}Au | 2010KR02 | NUCLEAR REACTIONS ^{27}Al , ^{197}Au , ^{59}Co , In , $^{181}\text{Ta}(n, \gamma)$, (n, α) , (n, xn) , $E=1$ GeV; $^{191,192,193,194,196,198}\text{Au}$, ^{24}Na ; measured E_α , I_α , E_γ , I_γ ; deduced yields, σ . JOUR NIMAE 615 70 |

A=192

- ^{192}Ta 2009AL30 NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- 2009AL30 RADIOACTIVITY $^{188,190,192}\text{Ta}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=1 GeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\beta\gamma$ correlations, and half-lives using GSI Fragment separator, MUSIC ionization chamber; and RISING array. $^{188,190,192}\text{W}$; deduced levels, J, π , logft. Comparison with interacting boson approximation (IBA-1) calculations for ^{190}W . Z=56-80, N=84-122; discussed systematics of first 2+ and 4+ states, B(E2), and γ deformation parameter in even-even nuclei. JOUR PRVCA 80 064308
- ^{192}W 2009AL30 NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- 2009AL30 RADIOACTIVITY $^{188,190,192}\text{Ta}(\beta^-)$ [from $\text{Be}(^{208}\text{Pb}, \text{X})$, E=1 GeV / nucleon]; measured E_γ , I_γ , $\gamma\gamma$ -coin, $\beta\gamma$ correlations, and half-lives using GSI Fragment separator, MUSIC ionization chamber; and RISING array. $^{188,190,192}\text{W}$; deduced levels, J, π , logft. Comparison with interacting boson approximation (IBA-1) calculations for ^{190}W . Z=56-80, N=84-122; discussed systematics of first 2+ and 4+ states, B(E2), and γ deformation parameter in even-even nuclei. JOUR PRVCA 80 064308
- ^{192}Re 2009AL30 NUCLEAR REACTIONS $\text{Be}(^{208}\text{Pb}, \text{X})^{186}\text{Hf} / ^{187}\text{Hf} / ^{188}\text{Hf} / ^{189}\text{Hf} / ^{188}\text{Ta} / ^{189}\text{Ta} / ^{190}\text{Ta} / ^{191}\text{Ta} / ^{192}\text{Ta} / ^{190}\text{W} / ^{191}\text{W} / ^{192}\text{W} / ^{193}\text{W} / ^{194}\text{W} / ^{192}\text{Re} / ^{193}\text{Re} / ^{194}\text{Re} / ^{195}\text{Re} / ^{196}\text{Re}$, E=1 GeV / nucleon; measured yields. ^{187}Hf , $^{188,189,190}\text{Ta}$, $^{190,191}\text{W}$, $^{192,193}\text{Re}$; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- ^{192}Ir 2008COZX NUCLEAR REACTIONS $^{191}\text{Ir}(n, \gamma)$, E \approx 0-20 MeV; $^{191}\text{Ir}(n, n')$, E \approx 0-20 MeV; $^{191}\text{Ir}(n, 2n)$, E \approx 5-25 MeV; measured E_γ , I_γ , $\gamma\gamma$ -coin.; deduced σ , $^{190,191}\text{Ir}$ isomeric transition, role of metastable states; calculated σ , σ (isomeric transition) using FKK-GNASH and exciton model; $^{191}\text{Ir}(n, 2n)$, $^{191}\text{Ir}(n, 3n)$, $^{191}\text{Ir}(n, 4n)$, E \approx 5-35 MeV; calculated σ . Compared to data and evaluations. GEANIE facility. CONF Nice (Nucl Data for Sci and Technol) Proc,P247
- ^{192}Au 2010KR02 NUCLEAR REACTIONS ^{27}Al , ^{197}Au , ^{59}Co , In, $^{181}\text{Ta}(n, \gamma)$, (n, α) , (n, xn) , E=1 GeV; $^{191,192,193,194,196,198}\text{Au}$, ^{24}Na ; measured E_α , I_α , E_γ , I_γ ; deduced yields, σ . JOUR NIMAE 615 70

KEYNUMBERS AND KEYWORDS

A=193

- ¹⁹³W 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- ¹⁹³Re 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- ¹⁹³Os 2008ZAZY RADIOACTIVITY ⁶⁰Co(β^-), ¹⁵²Eu(β^-), ¹⁹³Os(β^-); measured E γ , I γ , $\theta(\gamma)$, $\gamma\gamma$ -coin.; deduced mixing ratio, angular correlations. CONF Nice (Nucl Data for Sci and Technol) Proc,P455
- ¹⁹³Ir 2008ZAZY RADIOACTIVITY ⁶⁰Co(β^-), ¹⁵²Eu(β^-), ¹⁹³Os(β^-); measured E γ , I γ , $\theta(\gamma)$, $\gamma\gamma$ -coin.; deduced mixing ratio, angular correlations. CONF Nice (Nucl Data for Sci and Technol) Proc,P455
- ¹⁹³Au 2010KR02 NUCLEAR REACTIONS ²⁷Al, ¹⁹⁷Au, ⁵⁹Co, In, ¹⁸¹Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198}Au, ²⁴Na; measured E α , I α , E γ , I γ ; deduced yields, σ . JOUR NIMAE 615 70

A=194

- ¹⁹⁴W 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- ¹⁹⁴Re 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
- 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308
- ¹⁹⁴Os 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
- 2009REZW RADIOACTIVITY ¹⁹⁴Os(β^-) [from ¹⁹⁴Re]; measured β -delayed E γ , I γ (t); deduced half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P122,Regan
- ¹⁹⁴Ir 2009REZW RADIOACTIVITY ¹⁹⁴Os(β^-) [from ¹⁹⁴Re]; measured β -delayed E γ , I γ (t); deduced half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P122,Regan
- 2010KR02 NUCLEAR REACTIONS ²⁷Al, ¹⁹⁷Au, ⁵⁹Co, In, ¹⁸¹Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198}Au, ²⁴Na; measured E α , I α , E γ , I γ ; deduced yields, σ . JOUR NIMAE 615 70

KEYNUMBERS AND KEYWORDS

A=194 (continued)

¹⁹⁴Au 2010KR02 NUCLEAR REACTIONS ²⁷Al, ¹⁹⁷Au, ⁵⁹Co, In, ¹⁸¹Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198}Au, ²⁴Na; measured E α , I α , E γ , I γ ; deduced yields, σ . JOUR NIMAE 615 70

A=195

¹⁹⁵Re 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308

¹⁹⁵Os 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

A=196

¹⁹⁶Re 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

 2009AL30 NUCLEAR REACTIONS Be(²⁰⁸Pb, X)¹⁸⁶Hf / ¹⁸⁷Hf / ¹⁸⁸Hf / ¹⁸⁹Hf / ¹⁸⁸Ta / ¹⁸⁹Ta / ¹⁹⁰Ta / ¹⁹¹Ta / ¹⁹²Ta / ¹⁹⁰W / ¹⁹¹W / ¹⁹²W / ¹⁹³W / ¹⁹⁴W / ¹⁹²Re / ¹⁹³Re / ¹⁹⁴Re / ¹⁹⁵Re / ¹⁹⁶Re, E=1 GeV / nucleon; measured yields. ¹⁸⁷Hf, ^{188,189,190}Ta, ^{190,191}W, ^{192,193}Re; measured delayed γ ; deduced isomers and half-lives. JOUR PRVCA 80 064308

¹⁹⁶Os 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

¹⁹⁶Au 2010KR02 NUCLEAR REACTIONS ²⁷Al, ¹⁹⁷Au, ⁵⁹Co, In, ¹⁸¹Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198}Au, ²⁴Na; measured E α , I α , E γ , I γ ; deduced yields, σ . JOUR NIMAE 615 70

 2010RA02 NUCLEAR REACTIONS ¹⁹⁷Au(γ , n), E=0.05-2.5 GeV; measured E γ , I γ ; deduced isomeric yield ratios. JOUR JRNCD 283 519

¹⁹⁶Hg 2010BE05 NUCLEAR REACTIONS ¹⁹⁴Pt(α , 2n), E=9.3 MeV; measured E γ , I γ , $\gamma\gamma$ -coin, and $\gamma\gamma(\theta)$. ¹⁹⁶Hg; deduced levels, J, π , multipolarity, mixing ratio, and B(E2). Comparison with previous experimental data and with calculations using interacting boson approximation (IBA) with extended U _{ν} (6 / 12) (X) U _{π} (6 / 4) supersymmetry. ¹⁹⁶Hg interpreted as the fifth member of a magical quartet of ^{194,195}Pt, ^{195,196}Au in the context of extended supersymmetric IBA model. JOUR PRVCA 81 024312

A=197

- ¹⁹⁷Pt 2009NI13 RADIOACTIVITY ^{197m}Pt(IT); measured E γ , I γ , x rays; deduced K-shell internal conversion coefficient of 346.5-keV M4 isomeric transition. Comparison with theoretical conversion coefficient from Dirac-Fock calculation. JOUR PRVCA 80 064314
- ¹⁹⁷Au 2010BE01 NUCLEAR REACTIONS ¹⁹⁷Au(⁶⁸Ni, ⁶⁸Ni'), E=600 MeV / nucleon; ¹⁹⁷Au(⁵⁴Cr, ⁵⁴Cr'), E=100 MeV / nucleon; ¹⁹⁷Au(¹³²Xe, ¹³²Xe'), E=100 MeV / nucleon; ²⁷Al(p, 2p), E> 100 MeV; Ge, ²⁷Al(n, n'), E not given; Be(³⁷Ca, X)³⁶K, E=200 MeV / nucleon; measured reaction fragments, E γ , I γ ; deduced energy levels, B(E2) values, lifetimes, $\sigma(\theta)$. JOUR APOBB 41 505

A=198

- ¹⁹⁸Ir 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
- ¹⁹⁸Pt 2008KUZU RADIOACTIVITY ^{194,195,196}Re, ^{199,200}Os, ^{198,199,202}Ir(β^-); measured Ie(t); deduced T_{1/2}. Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
- ¹⁹⁸Au 2008SAZR NUCLEAR REACTIONS ¹⁹⁷Au(n, γ), E=low; measured E γ , I γ ; deduced σ . Preliminary and only in relative units. CONF Nice (Nucl Data for Sci and Technol) Proc,P583
- 2010CH01 NUCLEAR REACTIONS ¹⁹⁷Au, ¹³⁹La(n, γ), E=0.0536 eV; measured E γ , I γ ; deduced σ . Comparison with ENDF / B-VII.0 and JENDL-3.3 libraries. JOUR RAACA 98 1
- 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643
- 2010DI01 NUCLEAR REACTIONS ¹⁰²Pd, ¹²⁰Te, ¹³⁰Ba, ¹³²Ba, ¹⁵⁶Dy, ¹⁹⁷Au(n, γ), E=0-120 keV; measured E γ , I γ , Maxwellian-averaged σ by activation technique; deduced reaction rates for p process. Comparison with standard Hauser-Feshbach models and with results from various reaction libraries including ENDF-B / VII.0. JOUR PRVCA 81 015801
- 2010DI02 NUCLEAR REACTIONS ¹⁹⁷Au, ⁹⁴Zr, ⁶⁴Zn, ⁴⁵Sc, ¹³⁹La(n, γ), E=thermal; measured E γ , I γ ; deduced shape of neutron flux, covariances. JOUR ARISE 68 592
- 2010KR02 NUCLEAR REACTIONS ²⁷Al, ¹⁹⁷Au, ⁵⁹Co, In, ¹⁸¹Ta(n, γ), (n, α), (n, xn), E=1 GeV; ^{191,192,193,194,196,198}Au, ²⁴Na; measured E α , I α , E γ , I γ ; deduced yields, σ . JOUR NIMAE 615 70
- 2010WA03 NUCLEAR REACTIONS ¹⁹⁷Au, ^{56,57}Fe(n, γ), E=10-90 keV; measured E γ , I γ ; deduced σ . Comparison with ENDF / B-VII.0 and JENDL-3.3 data. JOUR NIMBE 268 440

KEYNUMBERS AND KEYWORDS

A=199

¹⁹⁹ Os	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
¹⁹⁹ Ir	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
¹⁹⁹ Pt	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

A=200

²⁰⁰ Os	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
²⁰⁰ Ir	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

A=201

²⁰¹ Po	2010DE04	RADIOACTIVITY ²⁰¹ At, ²⁰⁵ Fr(EC), (β^+)[from U(p, X), E=1.4 GeV]; measured E γ , I γ , ce, $\gamma\gamma^-$, γ (ce)-coin, half-lives, K-conversion coefficients, and EC / β^+ branching ratios. ²⁰¹ Po, ²⁰⁵ Rn; deduced levels, J, π , multipolarity, and logft. Systematics of 3 / 2- and 13 / 2+ states in Pb, Po, and Rn nuclei with N=117, 119, 121 and 123. JOUR PRVCA 81 024322
²⁰¹ At	2010DE04	RADIOACTIVITY ²⁰¹ At, ²⁰⁵ Fr(EC), (β^+)[from U(p, X), E=1.4 GeV]; measured E γ , I γ , ce, $\gamma\gamma^-$, γ (ce)-coin, half-lives, K-conversion coefficients, and EC / β^+ branching ratios. ²⁰¹ Po, ²⁰⁵ Rn; deduced levels, J, π , multipolarity, and logft. Systematics of 3 / 2- and 13 / 2+ states in Pb, Po, and Rn nuclei with N=117, 119, 121 and 123. JOUR PRVCA 81 024322

A=202

²⁰² Ir	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47
²⁰² Pt	2008KUZU	RADIOACTIVITY ^{194,195,196} Re, ^{199,200} Os, ^{198,199,202} Ir(β^-); measured Ie(t); deduced T _{1/2} . Compared with calculations. CONF Nice (Nucl Data for Sci and Technol) Proc,P47

A=203

No references found

A=204

²⁰⁴Tl 2008COZW NUCLEAR REACTIONS ²⁰³Tl(n, γ), E \approx 15 MeV - 300 keV; measured E γ , I γ , $\gamma\gamma$ -coin., deposited energy; ²⁰⁵Tl(n, γ), E \approx 2350-3300 eV; measured E γ , I γ , $\gamma\gamma$ -coin., deduced σ . Compared to other data, JEFF-3.0. CONF Nice (Nucl Data for Sci and Technol) Proc,P579

A=205

²⁰⁵Hg 2010KU02 RADIOACTIVITY ²⁰⁵Hg, ²⁰⁷Tl(β^-) [from Be(²⁰⁸Pb, X), E=750 MeV / nucleon];¹⁴⁰Pr, ¹⁴²Pm, ¹²²I(EC) [from Be(¹⁵²Sm, X), E=508 MeV / nucleon];measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525

²⁰⁵Tl 2010KU02 RADIOACTIVITY ²⁰⁵Hg, ²⁰⁷Tl(β^-) [from Be(²⁰⁸Pb, X), E=750 MeV / nucleon];¹⁴⁰Pr, ¹⁴²Pm, ¹²²I(EC) [from Be(¹⁵²Sm, X), E=508 MeV / nucleon];measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525

²⁰⁵Pb 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643

²⁰⁵Rn 2010DE04 RADIOACTIVITY ²⁰¹At, ²⁰⁵Fr(EC), (β^+)[from U(p, X), E=1.4 GeV]; measured E γ , I γ , ce, $\gamma\gamma^-$, γ (ce)-coin, half-lives, K-conversion coefficients, and EC / β^+ branching ratios. ²⁰¹Po, ²⁰⁵Rn; deduced levels, J, π , multipolarity, and logft. Systematics of 3 / 2- and 13 / 2+ states in Pb, Po, and Rn nuclei with N=117, 119, 121 and 123. JOUR PRVCA 81 024322

²⁰⁵Fr 2010DE04 RADIOACTIVITY ²⁰¹At, ²⁰⁵Fr(EC), (β^+)[from U(p, X), E=1.4 GeV]; measured E γ , I γ , ce, $\gamma\gamma^-$, γ (ce)-coin, half-lives, K-conversion coefficients, and EC / β^+ branching ratios. ²⁰¹Po, ²⁰⁵Rn; deduced levels, J, π , multipolarity, and logft. Systematics of 3 / 2- and 13 / 2+ states in Pb, Po, and Rn nuclei with N=117, 119, 121 and 123. JOUR PRVCA 81 024322

A=206

- ²⁰⁶Hg 2009AL29 NUCLEAR REACTIONS ⁹Be(²³⁸U, X)²⁰⁶Hg / ²⁰⁸Hg / ²⁰⁹Tl, E=1 GeV / nucleon; measured E γ , I γ , delayed γ , (particle) γ -coin, and half-lives using RISING array at GSI facility. ²⁰⁸Hg, ²⁰⁹Tl; deduced levels, J, π , isomers, and B(E2). Systematics of energies of first 2+ and 4+ states in even-even nuclei with Z=74-90, and N=112-138. Comparison with shell-model calculations. JOUR PRVCA 80 061302
- ²⁰⁶Tl 2008COZW NUCLEAR REACTIONS ²⁰³Tl(n, γ), E \approx 15 meV - 300 keV; measured E γ , I γ , $\gamma\gamma$ -coin., deposited energy; ²⁰⁵Tl(n, γ), E \approx 2350-3300 eV; measured E γ , I γ , $\gamma\gamma$ -coin., deduced σ . Compared to other data, JEFF-3.0. CONF Nice (Nucl Data for Sci and Technol) Proc,P579
- ²⁰⁶Pb 20080BZZ NUCLEAR REACTIONS ²³⁵U(n, f), E=thermal, fast; measured fission fragments in time; deduced T_{1/2}; Pb(n, xn)²⁰⁶Pb, E=5.1, 6.2, 7.0 MeV; measured E γ , I γ (t); deduced isomeric transition, spin population; ²³⁴U(n, f), E=0.95, 1.27 MeV; measured fission fragments in time; deduced ²³⁵U shape isomer σ , T_{1/2}; U(n, x)²³⁹U, E \approx 1 MeV; measured E γ , I γ (t); deduced ²³⁹U superdeformation ground state, isomeric transitions. NEPTUNE spectrometer. CONF Nice (Nucl Data for Sci and Technol) Proc,P53
- 2009FRZX NUCLEAR REACTIONS ^{206,207,208}Pb(γ , γ'), E=4.8, 5.5 MeV; measured E γ , I γ (θ) with polarized incident beam using HI γ S γ -source at DFELL; deduced coupling of ν hole in ²⁰⁷Pb to 1⁻ collective ²⁰⁸Pb state. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P591,Fritzsche
- 2009MA70 NUCLEAR REACTIONS ¹³C(α , γ), (α , n), E=2.000, 2.270 MeV; measured E γ , I γ , γ (θ), En, σ , and σ (θ); deduced astrophysical S factors. Comparison with previous experimental data. ²⁷Al, ¹²⁷I, ^{206,207,208}Pb(n, n'), E=3.5-4.4 MeV; ¹²⁷I(n, γ), E=10.1-11.3 MeV; measured E γ . JOUR PRVCA 80 065802

A=207

- ²⁰⁷Tl 2009M037 RADIOACTIVITY ²³¹Pa, ²³⁰U, ^{226,227}Th, ^{222,223}Ra, ^{218,219}Rn, ^{214,215}Po, ²¹¹Bi(α); measured E α . JOUR PRVCA 80 054612
- 2010KU02 RADIOACTIVITY ²⁰⁵Hg, ²⁰⁷Tl(β^-) [from Be(²⁰⁸Pb, X), E=750 MeV / nucleon]; ¹⁴⁰Pr, ¹⁴²Pm, ¹²²I(EC) [from Be(¹⁵²Sm, X), E=508 MeV / nucleon]; measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525
- ²⁰⁷Pb 2009FRZX NUCLEAR REACTIONS ^{206,207,208}Pb(γ , γ'), E=4.8, 5.5 MeV; measured E γ , I γ (θ) with polarized incident beam using HI γ S γ -source at DFELL; deduced coupling of ν hole in ²⁰⁷Pb to 1⁻ collective ²⁰⁸Pb state. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P591,Fritzsche
- 2009MA70 NUCLEAR REACTIONS ¹³C(α , γ), (α , n), E=2.000, 2.270 MeV; measured E γ , I γ , γ (θ), En, σ , and σ (θ); deduced astrophysical S factors. Comparison with previous experimental data. ²⁷Al, ¹²⁷I, ^{206,207,208}Pb(n, n'), E=3.5-4.4 MeV; ¹²⁷I(n, γ), E=10.1-11.3 MeV; measured E γ . JOUR PRVCA 80 065802

KEYNUMBERS AND KEYWORDS

A=207 (continued)

- 2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb, $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, E=0.001-1 MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643
- 2010KU02 RADIOACTIVITY ^{205}Hg , $^{207}\text{Tl}(\beta^-)$ [from Be(^{208}Pb , X), E=750 MeV / nucleon]; ^{140}Pr , ^{142}Pm , $^{122}\text{I}(\text{EC})$ [from Be(^{152}Sm , X), E=508 MeV / nucleon]; measured time evolution of the Schottky noise, revolution frequencies; deduced decay rates, Q-values, time-dependent decay constant. JOUR APOBB 41 525
- ^{207}Bi 2009VI09 RADIOACTIVITY $^{211,212,212m,213,214,214m}\text{At}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054609

A=208

- ^{208}Hg 2009AL29 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, \text{X})^{206}\text{Hg} / ^{208}\text{Hg} / ^{209}\text{Tl}$, E=1 GeV / nucleon; measured $E\gamma$, $I\gamma$, delayed γ , (particle) γ -coin, and half-lives using RISING array at GSI facility. ^{208}Hg , ^{209}Tl ; deduced levels, J, π , isomers, and B(E2). Systematics of energies of first 2+ and 4+ states in even-even nuclei with Z=74-90, and N=112-138. Comparison with shell-model calculations. JOUR PRVCA 80 061302
- ^{208}Pb 2009FRZX NUCLEAR REACTIONS $^{206,207,208}\text{Pb}(\gamma, \gamma')$, E=4.8, 5.5 MeV; measured $E\gamma$, $I\gamma(\theta)$ with polarized incident beam using HI γ S γ -source at DFELL; deduced coupling of ν hole in ^{207}Pb to 1^- collective ^{208}Pb state. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P591,Fritzsche
- 2009GAZW NUCLEAR REACTIONS $^{150}\text{Nd}(\alpha, 2n)$, E=22.8 MeV; measured non-yrast $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; $^{208}\text{Pb}(^{152}\text{Sm}, ^{152}\text{Sm}')$, E=652 MeV; measured Coulomb excitation $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; $^{152}\text{Sm}(n, n'\gamma)$, E=1.2-3.0 MeV; measured $E\gamma$, $I\gamma$; $^{152}\text{Sm}(n, n'\gamma)$, E=2.05, 2.7 MeV; measured $E\gamma$, $I\gamma$, $\theta(\gamma)$; $^{152}\text{Sm}(n, n'\gamma)$, E=3.2 MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ , $d\sigma(\theta)$, E, J, π , B(E2), bands, decay schemes. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P391,Garrett
- 2009MA70 NUCLEAR REACTIONS $^{13}\text{C}(\alpha, \gamma)$, (α, n), E=2.000, 2.270 MeV; measured $E\gamma$, $I\gamma$, $\gamma(\theta)$, En, σ , and $\sigma(\theta)$; deduced astrophysical S factors. Comparison with previous experimental data. ^{27}Al , ^{127}I , $^{206,207,208}\text{Pb}(n, n')$, E=3.5-4.4 MeV; $^{127}\text{I}(n, \gamma)$, E=10.1-11.3 MeV; measured $E\gamma$. JOUR PRVCA 80 065802
- 2009VOZY NUCLEAR REACTIONS $^{208}\text{Pb}(p, p')E=295$ MeV, polarized protons; measured E_p , I_p at 0 degrees; deduced $\sigma(\theta)$, B(E1) strengths. Compared to calculated strengths using QPM and to (γ, γ') reaction data. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P404,von Neumann-Co

KEYNUMBERS AND KEYWORDS

A=208 (continued)

- 2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643
- 2010EV01 NUCLEAR REACTIONS $^{208}\text{Pb}(^{16}\text{O}, X)$, $E(\text{cm})=50-75$ MeV; measured particle spectra. ^{208}Pb ; deduced excitation function of octupole vibrational state at 2.615 MeV; analyzed earlier quasielastic scattering excitation function data, and coulomb nuclear nuclear interface (CNI) using coupled-channel calculations. JOUR PRVCA 81 014602
- ^{208}Bi 2009VI09 RADIOACTIVITY $^{211,212,212m,213,214,214m}\text{At}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054609

A=209

- ^{209}Tl 2009AL29 NUCLEAR REACTIONS $^9\text{Be}(^{238}\text{U}, X)^{206}\text{Hg} / ^{208}\text{Hg} / ^{209}\text{Tl}$, $E=1$ GeV / nucleon; measured $E\gamma$, $I\gamma$, delayed γ , (particle) γ -coin, and half-lives using RISING array at GSI facility. ^{208}Hg , ^{209}Tl ; deduced levels, J , π , isomers, and $B(E2)$. Systematics of energies of first 2+ and 4+ states in even-even nuclei with $Z=74-90$, and $N=112-138$. Comparison with shell-model calculations. JOUR PRVCA 80 061302
- ^{209}Pb 2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643
- ^{209}Bi 2009VI09 RADIOACTIVITY $^{211,212,212m,213,214,214m}\text{At}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054609

A=210

- ^{210}Pb 2009M037 RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612
- ^{210}Bi 2008B0ZM NUCLEAR REACTIONS $^{209}\text{Bi}(n, \gamma)$, $E\approx 0.8-7$ keV; measured $E\gamma$, $I\gamma$; deduced $^{210g}\text{Bi} / ^{210m}\text{Bi}$ branching ratio around neutron resonances. Compared to other data. CONF Nice (Nucl Data for Sci and Technol) Proc,P563
- 2009VI09 RADIOACTIVITY $^{211,212,212m,213,214,214m}\text{At}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054609
- 2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643

A=211

^{211}Pb	2009M037	RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612
^{211}Bi	2009M037	RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612
^{211}At	2009VI09	NUCLEAR REACTIONS $^{208}\text{Pb}({}^9\text{Li}, \text{nx})^{211}\text{At}$ / ^{212}At / ^{213}At / ^{214}At , $E(\text{cm})=24.84, 27.35, 29.86, 32.36, 34.87, 37.37, 39.88, 42.38, 44.89$ MeV; $^{209}\text{Bi}({}^7\text{Li}, \text{nx})^{212}\text{Rn}$ / ^{213}Rn , $E(\text{cm})=34.95$ MeV; measured nuclidic yields, and fusion σ using ISAC2 facility at TRIUMF. Comparison with HVAP statistical model code and coupled-channel calculations. JOUR PRVCA 80 054609
	2009VI09	RADIOACTIVITY $^{211,212,212m,213,214,214m}\text{At}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054609
^{211}Rn	2010DA04	NUCLEAR REACTIONS ^{208}Pb , $^{209}\text{Bi}({}^9\text{Be}, \text{xn})^{211}\text{Rn}$ / ^{212}Rn / ^{213}Rn / ^{214}Rn / ^{212}Fr / ^{213}Fr / ^{214}Fr / ^{215}Fr / ^{216}Fr , $E=44.0, 50.0, 60.0$ MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

A=212

^{212}Po	2010AS01	NUCLEAR REACTIONS $^{208}\text{Pb}({}^{18}\text{O}, {}^{14}\text{C})$, $E=85$ MeV; measured $E\gamma$, $I\gamma$; deduced ^{212}Po level scheme, yrast state, lifetimes, $B(E1)$. Doppler-shift attenuation method. JOUR PRLTA 104 042701
^{212}At	2009VI09	NUCLEAR REACTIONS $^{208}\text{Pb}({}^9\text{Li}, \text{nx})^{211}\text{At}$ / ^{212}At / ^{213}At / ^{214}At , $E(\text{cm})=24.84, 27.35, 29.86, 32.36, 34.87, 37.37, 39.88, 42.38, 44.89$ MeV; $^{209}\text{Bi}({}^7\text{Li}, \text{nx})^{212}\text{Rn}$ / ^{213}Rn , $E(\text{cm})=34.95$ MeV; measured nuclidic yields, and fusion σ using ISAC2 facility at TRIUMF. Comparison with HVAP statistical model code and coupled-channel calculations. JOUR PRVCA 80 054609
	2009VI09	RADIOACTIVITY $^{211,212,212m,213,214,214m}\text{At}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054609
^{212}Rn	2009DR12	NUCLEAR REACTIONS $^{204}\text{Hg}({}^{13}\text{C}, 5\text{n})$, $E=89$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma(\theta)$, and half-lives using CAESAR array. ^{212}Rn ; deduced levels, J , π , multipolarities, transition strengths, and configurations. Comparison with semi-empirical shell model approach and deformed independent particle model (DIPM) calculations. JOUR PRVCA 80 054320
	2009VI09	NUCLEAR REACTIONS $^{208}\text{Pb}({}^9\text{Li}, \text{nx})^{211}\text{At}$ / ^{212}At / ^{213}At / ^{214}At , $E(\text{cm})=24.84, 27.35, 29.86, 32.36, 34.87, 37.37, 39.88, 42.38, 44.89$ MeV; $^{209}\text{Bi}({}^7\text{Li}, \text{nx})^{212}\text{Rn}$ / ^{213}Rn , $E(\text{cm})=34.95$ MeV; measured nuclidic yields, and fusion σ using ISAC2 facility at TRIUMF. Comparison with HVAP statistical model code and coupled-channel calculations. JOUR PRVCA 80 054609
	2010DA04	NUCLEAR REACTIONS ^{208}Pb , $^{209}\text{Bi}({}^9\text{Be}, \text{xn})^{211}\text{Rn}$ / ^{212}Rn / ^{213}Rn / ^{214}Rn / ^{212}Fr / ^{213}Fr / ^{214}Fr / ^{215}Fr / ^{216}Fr , $E=44.0, 50.0, 60.0$ MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

KEYNUMBERS AND KEYWORDS

A=212 (continued)

²¹²Fr 2010DA04 NUCLEAR REACTIONS ²⁰⁸Pb, ²⁰⁹Bi(⁹Be, xn)²¹¹Rn / ²¹²Rn / ²¹³Rn / ²¹⁴Rn / ²¹²Fr / ²¹³Fr / ²¹⁴Fr / ²¹⁵Fr / ²¹⁶Fr, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

A=213

²¹³At 2009VI09 NUCLEAR REACTIONS ²⁰⁸Pb(⁹Li, nx)²¹¹At / ²¹²At / ²¹³At / ²¹⁴At, E(cm)=24.84, 27.35, 29.86, 32.36, 34.87, 37.37, 39.88, 42.38, 44.89 MeV; ²⁰⁹Bi(⁷Li, nx)²¹²Rn / ²¹³Rn, E(cm)=34.95 MeV; measured nuclidic yields, and fusion σ using ISAC2 facility at TRIUMF. Comparison with HVAP statistical model code and coupled-channel calculations. JOUR PRVCA 80 054609

2009VI09 RADIOACTIVITY ^{211,212,212m,213,214,214m}At(α); measured E α . JOUR PRVCA 80 054609

²¹³Rn 2009VI09 NUCLEAR REACTIONS ²⁰⁸Pb(⁹Li, nx)²¹¹At / ²¹²At / ²¹³At / ²¹⁴At, E(cm)=24.84, 27.35, 29.86, 32.36, 34.87, 37.37, 39.88, 42.38, 44.89 MeV; ²⁰⁹Bi(⁷Li, nx)²¹²Rn / ²¹³Rn, E(cm)=34.95 MeV; measured nuclidic yields, and fusion σ using ISAC2 facility at TRIUMF. Comparison with HVAP statistical model code and coupled-channel calculations. JOUR PRVCA 80 054609

2010DA04 NUCLEAR REACTIONS ²⁰⁸Pb, ²⁰⁹Bi(⁹Be, xn)²¹¹Rn / ²¹²Rn / ²¹³Rn / ²¹⁴Rn / ²¹²Fr / ²¹³Fr / ²¹⁴Fr / ²¹⁵Fr / ²¹⁶Fr, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

²¹³Fr 2010DA04 NUCLEAR REACTIONS ²⁰⁸Pb, ²⁰⁹Bi(⁹Be, xn)²¹¹Rn / ²¹²Rn / ²¹³Rn / ²¹⁴Rn / ²¹²Fr / ²¹³Fr / ²¹⁴Fr / ²¹⁵Fr / ²¹⁶Fr, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

A=214

²¹⁴Po 2009M037 RADIOACTIVITY ²³¹Pa, ²³⁰U, ^{226,227}Th, ^{222,223}Ra, ^{218,219}Rn, ^{214,215}Po, ²¹¹Bi(α); measured E α . JOUR PRVCA 80 054612

²¹⁴At 2009VI09 NUCLEAR REACTIONS ²⁰⁸Pb(⁹Li, nx)²¹¹At / ²¹²At / ²¹³At / ²¹⁴At, E(cm)=24.84, 27.35, 29.86, 32.36, 34.87, 37.37, 39.88, 42.38, 44.89 MeV; ²⁰⁹Bi(⁷Li, nx)²¹²Rn / ²¹³Rn, E(cm)=34.95 MeV; measured nuclidic yields, and fusion σ using ISAC2 facility at TRIUMF. Comparison with HVAP statistical model code and coupled-channel calculations. JOUR PRVCA 80 054609

2009VI09 RADIOACTIVITY ^{211,212,212m,213,214,214m}At(α); measured E α . JOUR PRVCA 80 054609

KEYNUMBERS AND KEYWORDS

A=214 (continued)

- ^{214}Rn 2010DA04 NUCLEAR REACTIONS ^{208}Pb , $^{209}\text{Bi}(^9\text{Be}, \text{xn})^{211}\text{Rn} / ^{212}\text{Rn} / ^{213}\text{Rn} / ^{214}\text{Rn} / ^{212}\text{Fr} / ^{213}\text{Fr} / ^{214}\text{Fr} / ^{215}\text{Fr} / ^{216}\text{Fr}$, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608
- ^{214}Fr 2010DA04 NUCLEAR REACTIONS ^{208}Pb , $^{209}\text{Bi}(^9\text{Be}, \text{xn})^{211}\text{Rn} / ^{212}\text{Rn} / ^{213}\text{Rn} / ^{214}\text{Rn} / ^{212}\text{Fr} / ^{213}\text{Fr} / ^{214}\text{Fr} / ^{215}\text{Fr} / ^{216}\text{Fr}$, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

A=215

- ^{215}Po 2009M037 RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612
- ^{215}Fr 2010DA04 NUCLEAR REACTIONS ^{208}Pb , $^{209}\text{Bi}(^9\text{Be}, \text{xn})^{211}\text{Rn} / ^{212}\text{Rn} / ^{213}\text{Rn} / ^{214}\text{Rn} / ^{212}\text{Fr} / ^{213}\text{Fr} / ^{214}\text{Fr} / ^{215}\text{Fr} / ^{216}\text{Fr}$, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

A=216

- ^{216}Fr 2010DA04 NUCLEAR REACTIONS ^{208}Pb , $^{209}\text{Bi}(^9\text{Be}, \text{xn})^{211}\text{Rn} / ^{212}\text{Rn} / ^{213}\text{Rn} / ^{214}\text{Rn} / ^{212}\text{Fr} / ^{213}\text{Fr} / ^{214}\text{Fr} / ^{215}\text{Fr} / ^{216}\text{Fr}$, E=44.0, 50.0, 60.0 MeV; measured α and fragment spectra; deduced complete fusion σ . Discussed discrepancies in previous cross section data for similar reactions. JOUR PRVCA 81 024608

A=217

No references found

A=218

- ^{218}Rn 2009M037 RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612

A=219

- ^{219}Rn 2009M037 RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612

KEYNUMBERS AND KEYWORDS

A=220

No references found

A=221

²²¹At 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511

A=222

²²²At 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511

²²²Ra 2009M037 RADIOACTIVITY ²³¹Pa, ²³⁰U, ^{226,227}Th, ^{222,223}Ra, ^{218,219}Rn, ^{214,215}Po, ²¹¹Bi(α); measured E α . JOUR PRVCA 80 054612

A=223

²²³Rn 2010LI02 ATOMIC MASSES ^{85,86}As, ⁸⁹Se, ¹²³Ag, ¹³⁸Te, ^{140,141}I, ¹⁴³Xe, ^{221,222}At, ²²³Rn, ²²⁸Fr, ²³¹Ra; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511

²²³Ra 2009M037 RADIOACTIVITY ²³¹Pa, ²³⁰U, ^{226,227}Th, ^{222,223}Ra, ^{218,219}Rn, ^{214,215}Po, ²¹¹Bi(α); measured E α . JOUR PRVCA 80 054612

A=224

No references found

A=225

No references found

A=226

²²⁶Th 2009M037 NUCLEAR REACTIONS ²³¹Pa(d, 3n)²³⁰U, E=11.2-19.9 MeV; measured γ and α spectra; deduced σ and thick target yields. Comparison with EMPIRE 3 code model calculations. ²²⁶Th; discussed production from ²³⁰U(α) for targeted α therapy. JOUR PRVCA 80 054612

 2009M037 RADIOACTIVITY ²³¹Pa, ²³⁰U, ^{226,227}Th, ^{222,223}Ra, ^{218,219}Rn, ^{214,215}Po, ²¹¹Bi(α); measured E α . JOUR PRVCA 80 054612

KEYNUMBERS AND KEYWORDS

A=227

^{227}Ac	2009M037	RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612
^{227}Th	2009M037	RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612

A=228

^{228}Fr	2010LI02	ATOMIC MASSES $^{85,86}\text{As}$, ^{89}Se , ^{123}Ag , ^{138}Te , $^{140,141}\text{I}$, ^{143}Xe , $^{221,222}\text{At}$, ^{223}Rn , ^{228}Fr , ^{231}Ra ; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511
^{228}U	2009SI36	NUCLEAR REACTIONS $^{209}\text{Bi}(^{19}\text{F}, \text{X})^{228}\text{U}$, $E=100, 104, 108, 112, 116$ MeV; measured neutrons by tof and fission fragments; deduced pre-scission and post-scission neutron multiplicity spectra and total neutron multiplicities from the fission of compound nucleus ^{228}U . Comparison with statistical model calculations using Bohr-Wheeler transition state fission width and Kramer dissipative dynamical fission width. JOUR PRVCA 80 064615

A=229

No references found

A=230

^{230}U	2009M037	NUCLEAR REACTIONS $^{231}\text{Pa}(d, 3n)^{230}\text{U}$, $E=11.2-19.9$ MeV; measured γ and α spectra; deduced σ and thick target yields. Comparison with EMPIRE 3 code model calculations. ^{226}Th ; discussed production from $^{230}\text{U}(\alpha)$ for targeted α therapy. JOUR PRVCA 80 054612
	2009M037	RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612

A=231

^{231}Ra	2010LI02	ATOMIC MASSES $^{85,86}\text{As}$, ^{89}Se , ^{123}Ag , ^{138}Te , $^{140,141}\text{I}$, ^{143}Xe , $^{221,222}\text{At}$, ^{223}Rn , ^{228}Fr , ^{231}Ra ; measured atomic mass using storage ring mass spectrometry. JOUR APOBB 41 511
^{231}Pa	2009M037	RADIOACTIVITY ^{231}Pa , ^{230}U , $^{226,227}\text{Th}$, $^{222,223}\text{Ra}$, $^{218,219}\text{Rn}$, $^{214,215}\text{Po}$, $^{211}\text{Bi}(\alpha)$; measured $E\alpha$. JOUR PRVCA 80 054612

KEYNUMBERS AND KEYWORDS

A=232

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|-------------------|----------|---|
| ^{232}Pa | 2008FOZY | RADIOACTIVITY $^{232}\text{Pa}(\beta^-)$ [from $^{232}\text{Th}(p, n)$, $E \approx 11.5$ MeV]; measured $E\gamma$, $I\gamma(t)$, $e\text{-}\gamma\text{-coin.}$; deduced isomer half-life, decay modes. CONF Nice (Nucl Data for Sci and Technol) Proc,P119 |
| ^{232}U | 2008FOZY | RADIOACTIVITY $^{232}\text{Pa}(\beta^-)$ [from $^{232}\text{Th}(p, n)$, $E \approx 11.5$ MeV]; measured $E\gamma$, $I\gamma(t)$, $e\text{-}\gamma\text{-coin.}$; deduced isomer half-life, decay modes. CONF Nice (Nucl Data for Sci and Technol) Proc,P119 |

A=233

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|-------------------|----------|--|
| ^{233}Th | 2008LEZO | NUCLEAR REACTIONS ^{170}Er , ^{180}Hf , ^{242}Pu , $^{232}\text{Th}(n, \gamma)$, $E=\text{reactor spectrum}$; measured $E\gamma$, $I\gamma$; deduced ^{171}Er , ^{181}Hf , ^{243}Pu , ^{233}Pa integral σ ; compared to JEFF-3.1. CONF Nice (Nucl Data for Sci and Technol) Proc,P521 |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001\text{-}1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| ^{233}Pa | 2010LE01 | RADIOACTIVITY ^{238}Np , $^{60}\text{Co}(\beta^-)$, ^{237}Np , $^{238}\text{Pu}(\alpha)$; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$; deduced γ -ray emission probabilities from β^- -decay of ^{238}Np . JOUR ARISE 68 432 |

A=234

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|------------------|----------|--|
| ^{234}U | 2008BEZM | NUCLEAR REACTIONS $^{233}\text{U}(n, f)$, $E \approx 1$ eV-1 MeV; $^{233}\text{U}(n, \gamma)$, $E \approx 1$ eV-1 MeV; measured $E\gamma$, $I\gamma$, $E(\text{fission})$ using TAC (Total Absorption Calorimeter); deduced σ . Compared to other data, ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P571 |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001\text{-}1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| | 2010LE01 | RADIOACTIVITY ^{238}Np , $^{60}\text{Co}(\beta^-)$, ^{237}Np , $^{238}\text{Pu}(\alpha)$; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$; deduced γ -ray emission probabilities from β^- -decay of ^{238}Np . JOUR ARISE 68 432 |

A=235

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|------------------|----------|---|
| ^{235}U | 2008BRZX | NUCLEAR REACTIONS $^{235}\text{U}(n, f)$, $E=6\text{-}18$ MeV; $^{235}\text{U}(n, \gamma)$, $E=6\text{-}18$ MeV; measured $E\gamma$, $I\gamma$, (fragment)- γ -coin.; deduced σ with and without fission tagging; $^{234,236}\text{U}(n, \gamma)$, $E=0.01$ eV-1 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to ENDF / B-VI. CONF Nice (Nucl Data for Sci and Technol) Proc,P607 |
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KEYNUMBERS AND KEYWORDS

A=235 (continued)

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|----------------------------|--|
| 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| ^{235}Np 2008LAZT | NUCLEAR REACTIONS $^{234}\text{Np}(n, \gamma)$, $E=\text{thermal-100 eV}$; measured $E\gamma$, $I\gamma$ using TAC (Total Absorption Calorimeter) at n-TOF; deduced yield, neutron resonance parameters using SAMMY. Compared to ENDF / B-VI.8. CONF Nice (Nucl Data for Sci and Technol) Proc,P595 |
| 2010HU02 | NUCLEAR REACTIONS $^{237}\text{Np}(^{116}\text{Sn}, ^{118}\text{Sn})^{235}\text{Np}$, $E=801$ MeV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -, (particle) γ -, (fragment)(fragment) γ -coin, and angular distribution of γ -ray yields for ^{116}Sn , ^{117}Sn and ^{118}Sn using the Gammasphere and CHICO arrays. ^{235}Np ; deduced levels, J, π , bands, angular momentum, moment of inertia as functions of rotational frequency, configurations. $^{116,117,118}\text{Sn}$; measured $E\gamma$, $\gamma\gamma$ -coin. Comparison with cranked shell-model calculations and with alignment plots for ^{237}Np and ^{241}Am . JOUR PRVCA 81 014312 |

A=236

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|---------------------------|---|
| ^{236}U 2008BRZX | NUCLEAR REACTIONS $^{235}\text{U}(n, f)$, $E=6-18$ MeV; $^{235}\text{U}(n, \gamma)$, $E=6-18$ MeV; measured $E\gamma$, $I\gamma$, (fragment)- γ -coin.; deduced σ with and without fission tagging; $^{234,236}\text{U}(n, \gamma)$, $E=0.01$ eV-1 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to ENDF / B-VI. CONF Nice (Nucl Data for Sci and Technol) Proc,P607 |
| 2008ESZY | NUCLEAR REACTIONS $^{238}\text{U}(^3\text{He}, \alpha)$, $E=42$ MeV [surrogate for $^{236}\text{U}(n, f)$, $E\approx 0.6-2.0$ MeV]; measured $E\alpha$, $I\alpha$, $\theta(\alpha)$, $E\gamma$, $I\gamma$. ^{236}U deduced γ transitions in ground-state band. CONF Nice (Nucl Data for Sci and Technol) Proc,P325 |
| 2008KOZP | RADIOACTIVITY ^{240}Pu , $^{245,246}\text{Cm}$, $^{250}\text{Cf}(\alpha)$ [from ^{250}Cf]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, α -decay energies, $P\alpha$. Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93 |
| 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |

A=237

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|---------------------------|---|
| ^{237}U 2008BRZX | NUCLEAR REACTIONS $^{235}\text{U}(n, f)$, $E=6-18$ MeV; $^{235}\text{U}(n, \gamma)$, $E=6-18$ MeV; measured $E\gamma$, $I\gamma$, (fragment)- γ -coin.; deduced σ with and without fission tagging; $^{234,236}\text{U}(n, \gamma)$, $E=0.01$ eV-1 MeV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to ENDF / B-VI. CONF Nice (Nucl Data for Sci and Technol) Proc,P607 |
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KEYNUMBERS AND KEYWORDS

A=237 (continued)

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|-------------------|----------|--|
| | 2008ESZY | NUCLEAR REACTIONS $^{238}\text{U}(^3\text{He}, \alpha)$, $E=42$ MeV [surrogate for $^{236}\text{U}(n, f)$, $E\approx 0.6\text{-}2.0$ MeV]; measured $E\alpha$, $I\alpha$, $\theta(\alpha)$, $E\gamma$, $I\gamma$. ^{236}U deduced γ transitions in ground-state band. CONF Nice (Nucl Data for Sci and Technol) Proc,P325 |
| | 2009MEZX | NUCLEAR REACTIONS $^{236}\text{U}(n, \gamma)$, $E=1$ eV-10 keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin., $E(\text{particle})$, $I(\text{particle})$; deduced capture yield. ToF spectra. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P381,Mezentseva |
| | 2009SUZY | NUCLEAR REACTIONS $^{236}\text{U}(n, \gamma)$, $E=\text{low}$; measured $E\gamma$, $I\gamma$; deduced γ strengths $B(M1)$, $B(E1)$, nuclear level density. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P577,Sukhovej |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001\text{-}1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| ^{237}Np | 2008XXZY | RADIOACTIVITY $^{241}\text{Am}(\alpha)$, $^{242}\text{Cm}(\alpha)$ [from $^{241}\text{Am}(n, \gamma)^{242}\text{Am}(\beta^-)$]; measured $E\alpha$, $I\alpha$; deduced ^{242}Cm yield. CONF Nice (Nucl Data for Sci and Technol) Proc,P425 |
| | 2010LE01 | RADIOACTIVITY ^{238}Np , $^{60}\text{Co}(\beta^-)$, ^{237}Np , $^{238}\text{Pu}(\alpha)$; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$; deduced γ -ray emission probabilities from β^- -decay of ^{238}Np . JOUR ARISE 68 432 |
| | 2010M001 | RADIOACTIVITY $^{241}\text{Am}(\alpha)$; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$, $\alpha\gamma$ -coin.; deduced γ -ray emission probabilities per decay. Comparison with Monte-Carlo code. JOUR ARISE 68 596 |

A=238

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|-------------------|----------|--|
| ^{238}U | 2009L0ZZ | RADIOACTIVITY $^{238}\text{U}(\text{SF})$; measured Sn fragments, $E\gamma$, $I\gamma$, particle- γ -coin., ; deduced J , π , high-spin states, isomeric transitions, half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P164,Lozeva |
| ^{238}Np | 2008MIZR | NUCLEAR REACTIONS $^{237}\text{Np}(n, \gamma)$, $E=0.015\text{-}20$ eV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ . Compared to JENDL-3.3. CONF Nice (Nucl Data for Sci and Technol) Proc,P591 |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001\text{-}1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| | 2010LE01 | RADIOACTIVITY ^{238}Np , $^{60}\text{Co}(\beta^-)$, ^{237}Np , $^{238}\text{Pu}(\alpha)$; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$; deduced γ -ray emission probabilities from β^- -decay of ^{238}Np . JOUR ARISE 68 432 |
| | 2010LE01 | NUCLEAR REACTIONS ^{237}Np , $^{59}\text{Co}(n, \gamma)$, E not given; measured $E\gamma$, $I\gamma$; deduced σ . JOUR ARISE 68 432 |
| ^{238}Pu | 2008XXZY | RADIOACTIVITY $^{241}\text{Am}(\alpha)$, $^{242}\text{Cm}(\alpha)$ [from $^{241}\text{Am}(n, \gamma)^{242}\text{Am}(\beta^-)$]; measured $E\alpha$, $I\alpha$; deduced ^{242}Cm yield. CONF Nice (Nucl Data for Sci and Technol) Proc,P425 |

KEYNUMBERS AND KEYWORDS

A=238 (continued)

2010LE01 RADIOACTIVITY ^{238}Np , $^{60}\text{Co}(\beta^-)$, ^{237}Np , $^{238}\text{Pu}(\alpha)$; measured $E\gamma$, $I\gamma$, $E\alpha$, $I\alpha$; deduced γ -ray emission probabilities from β^- -decay of ^{238}Np . JOUR ARISE 68 432

A=239

^{239}U 20080BZZ NUCLEAR REACTIONS $^{235}\text{U}(\text{n, f})$, $E=\text{thermal}$, fast; measured fission fragments in time; deduced $T_{1/2}$; $\text{Pb}(\text{n, xn})^{206}\text{Pb}$, $E=5.1, 6.2, 7.0$ MeV; measured $E\gamma$, $I\gamma(t)$; deduced isomeric transition, spin population; $^{234}\text{U}(\text{n, f})$, $E=0.95, 1.27$ MeV; measured fission fragments in time; deduced ^{235}U shape isomer σ , $T_{1/2}$; $\text{U}(\text{n, x})^{239}\text{U}$, $E\approx 1$ MeV; measured $E\gamma$, $I\gamma(t)$; deduced ^{239}U superdeformation ground state, isomeric transitions. NEPTUNE spectrometer. CONF Nice (Nucl Data for Sci and Technol) Proc,P53

2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(\text{n, } \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643

^{239}Pu 2009K0ZV RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E, J, π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev

A=240

^{240}Pu 2008K0ZP RADIOACTIVITY ^{240}Pu , $^{245,246}\text{Cm}$, $^{250}\text{Cf}(\alpha)$ [from ^{250}Cf]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, α -decay energies, $P\alpha$. Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93

^{240}Am 2008VIZX NUCLEAR REACTIONS $^{241}\text{Am}(\text{n, 2n})$, $E=7.6-14.5$ MeV; $^{241}\text{Am}(\text{n, } \gamma)$, $E\approx 0.03$ eV - 100 keV; measured $E\gamma$, $I\gamma$; deduced σ . Compared to other data, ENDF / B-VII, JENDL-3.3, JEFF-3.1. CONF Nice (Nucl Data for Sci and Technol) Proc,P551

A=241

^{241}Pu 2008K0ZP RADIOACTIVITY ^{240}Pu , $^{245,246}\text{Cm}$, $^{250}\text{Cf}(\alpha)$ [from ^{250}Cf]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, α -decay energies, $P\alpha$. Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93

2010C002 NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(\text{n, } \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643

KEYNUMBERS AND KEYWORDS

A=241 (continued)

- ²⁴¹Am 2008XXZY RADIOACTIVITY ²⁴¹Am(α), ²⁴²Cm(α)[from ²⁴¹Am(n, γ)²⁴²Am(β^-)]; measured E α , I α ; deduced ²⁴²Cm yield. CONF Nice (Nucl Data for Sci and Technol) Proc,P425
- 2010M001 RADIOACTIVITY ²⁴¹Am(α); measured E γ , I γ , E α , I α , $\alpha\gamma$ -coin.; deduced γ -ray emission probabilities per decay. Comparison with Monte-Carlo code. JOUR ARISE 68 596

A=242

- ²⁴²Pu 2008KOZP RADIOACTIVITY ²⁴⁰Pu, ^{245,246}Cm, ²⁵⁰Cf(α) [from ²⁵⁰Cf]; measured E α , I α ; deduced T_{1/2}, α -decay energies, P α . Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93
- ²⁴²Am 2008JUZY NUCLEAR REACTIONS ²⁴³Am(³He, d), E=24, 30 MeV; ²⁴³Am(³He, t), E=24, 30 MeV; ²⁴³Am(³He, α), E=24, 30 MeV; measured E γ , I γ , E(fragment), θ (fragment), I(fragment); deduced ^{241,242,243}Am(n, f) σ . Compared to data, ENDFB-VII, JENDL-3.3, JEFF-3.1 / A. CONF Nice (Nucl Data for Sci and Technol) Proc,P331
- 2008VIZX NUCLEAR REACTIONS ²⁴¹Am(n, 2n), E=7.6-14.5 MeV; ²⁴¹Am(n, γ), E \approx 0.03 eV - 100 keV; measured E γ , I γ ; deduced σ . Compared to other data, ENDF / B-VII, JENDL-3.3, JEFF-3.1. CONF Nice (Nucl Data for Sci and Technol) Proc,P551
- 2008XXZY NUCLEAR REACTIONS ²⁴¹Am(n, f), E=reactor spectrum; measured I(fragment); deduced σ , isomeric transition, yield; ²⁴¹Am(n, γ), E=reactor spectrum; measured E α , I α ; deduced σ , isomeric transition. Compared to other data and ENDF / B-VII. CONF Nice (Nucl Data for Sci and Technol) Proc,P425
- 2010C002 NUCLEAR REACTIONS ¹⁹⁷Au, ¹⁵¹Sm, Pb, ^{204,206,207,208}Pb, ²⁰⁹Bi, ¹³⁹La, ²³²Th, ^{24,25,26}Mg, ^{90,91,92,93,94,95,96}Zr, ^{186,187,188}Os, ^{233,234,235,236,238}U, ²³⁷Np, ²⁴⁰Pu, ^{241,243}Am, ²⁴⁵Cm(n, γ), E=0.001-1 MeV; measured E γ , I γ , fission fragments; deduced σ . JOUR ARISE 68 643
- ²⁴²Cm 2008XXZY RADIOACTIVITY ²⁴¹Am(α), ²⁴²Cm(α)[from ²⁴¹Am(n, γ)²⁴²Am(β^-)]; measured E α , I α ; deduced ²⁴²Cm yield. CONF Nice (Nucl Data for Sci and Technol) Proc,P425

A=243

- ²⁴³Pu 2008LEZO NUCLEAR REACTIONS ¹⁷⁰Er, ¹⁸⁰Hf, ²⁴²Pu, ²³²Th(n, γ), E=reactor spectrum; measured E γ , I γ ; deduced ¹⁷¹Er, ¹⁸¹Hf, ²⁴³Pu, ²³³Pa integral σ ; compared to JEFF-3.1. CONF Nice (Nucl Data for Sci and Technol) Proc,P521
- ²⁴³Am 2008PAZR NUCLEAR REACTIONS ¹⁵¹Eu(n, γ), E=0.2 eV - 100 keV; measured E γ , I γ , $\gamma\gamma$ -coin.; deduced σ ; ²⁴²Am(n, γ), E \approx 2-100 eV; measured E γ , I γ , E(fragment), I(fragment), (fragment)- γ coin.; deduced σ . Compared to other data. DICEBOX, GEANT-4, DANCE. CONF Nice (Nucl Data for Sci and Technol) Proc,P491

KEYNUMBERS AND KEYWORDS

A=243 (continued)

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|-------------------|----------|--|
| 2009JAZY | | NUCLEAR REACTIONS $^{242}\text{Am}(n, \gamma)$, $E \approx 2-9$ eV isomeric state; $^{243}\text{Am}(n, \gamma)$, $E \approx 10$ eV-250 keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ . DANCE. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P220,Jandel |
| ^{243}Cm | 2008JUZY | NUCLEAR REACTIONS $^{243}\text{Am}(^3\text{He}, d)$, $E=24, 30$ MeV; $^{243}\text{Am}(^3\text{He}, t)$, $E=24, 30$ MeV; $^{243}\text{Am}(^3\text{He}, \alpha)$, $E=24, 30$ MeV; measured $E\gamma$, $I\gamma$, $E(\text{fragment})$, $\theta(\text{fragment})$, $I(\text{fragment})$; deduced $^{241,242,243}\text{Am}(n, f)$ σ . Compared to data, ENDFB-VII, JENDL-3.3, JEFF-3.1 / A. CONF Nice (Nucl Data for Sci and Technol) Proc,P331 |
| | 2009KOZV | RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E, J, π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev |

A=244

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|-------------------|----------|---|
| ^{244}Am | 2009JAZY | NUCLEAR REACTIONS $^{242}\text{Am}(n, \gamma)$, $E \approx 2-9$ eV isomeric state; $^{243}\text{Am}(n, \gamma)$, $E \approx 10$ eV-250 keV; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin.; deduced σ . DANCE. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P220,Jandel |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001-1$ MeV; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |
| ^{244}Cm | 2008JUZY | NUCLEAR REACTIONS $^{243}\text{Am}(^3\text{He}, d)$, $E=24, 30$ MeV; $^{243}\text{Am}(^3\text{He}, t)$, $E=24, 30$ MeV; $^{243}\text{Am}(^3\text{He}, \alpha)$, $E=24, 30$ MeV; measured $E\gamma$, $I\gamma$, $E(\text{fragment})$, $\theta(\text{fragment})$, $I(\text{fragment})$; deduced $^{241,242,243}\text{Am}(n, f)$ σ . Compared to data, ENDFB-VII, JENDL-3.3, JEFF-3.1 / A. CONF Nice (Nucl Data for Sci and Technol) Proc,P331 |

A=245

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|-------------------|----------|--|
| ^{245}Cm | 2008KOZP | RADIOACTIVITY ^{240}Pu , $^{245,246}\text{Cm}$, $^{250}\text{Cf}(\alpha)$ [from ^{250}Cf]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, α -decay energies, $P\alpha$. Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93 |
| | 2009KOZV | RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E, J, π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev |

KEYNUMBERS AND KEYWORDS

A=246

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|-------------------|----------|--|
| ^{246}Cm | 2008KOZP | RADIOACTIVITY ^{240}Pu , $^{245,246}\text{Cm}$, $^{250}\text{Cf}(\alpha)$ [from ^{250}Cf]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, α -decay energies, $P\alpha$. Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93 |
| | 2010C002 | NUCLEAR REACTIONS ^{197}Au , ^{151}Sm , Pb , $^{204,206,207,208}\text{Pb}$, ^{209}Bi , ^{139}La , ^{232}Th , $^{24,25,26}\text{Mg}$, $^{90,91,92,93,94,95,96}\text{Zr}$, $^{186,187,188}\text{Os}$, $^{233,234,235,236,238}\text{U}$, ^{237}Np , ^{240}Pu , $^{241,243}\text{Am}$, $^{245}\text{Cm}(n, \gamma)$, $E=0.001\text{-}1\text{ MeV}$; measured $E\gamma$, $I\gamma$, fission fragments; deduced σ . JOUR ARISE 68 643 |

A=247

No references found

A=248

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|-------------------|----------|--|
| ^{248}Cm | 2009RZ02 | RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, $\gamma(t)$, and isomer half-lives using EUROGAM2 array. $^{142,144}\text{Cs}$; deduced levels, J , π , bands, isomers and configurations. Comparison with quasiparticle rotor model (QPRM) calculations. JOUR PRVCA 80 064317 |
| | 2010SI03 | RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and half-lives using Gammasphere and Eurogam-II arrays. ^{151}Ce , ^{153}Nd ; deduced levels, J , π , bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ^{151}Ce , ^{153}Nd , ^{155}Sm , ^{157}Gd , ^{159}Dy ; systematics of bandheads. JOUR PRVCA 81 024313 |

A=249

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|-------------------|----------|--|
| ^{249}Bk | 2009KOZV | RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E , J , π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev |
| ^{249}Cf | 2009KOZV | RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E , J , π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev |

KEYNUMBERS AND KEYWORDS

A=250

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|-------------------|----------|--|
| ^{250}Bk | 2009K0ZV | RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E, J, π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev |
| ^{250}Cf | 2008K0ZP | RADIOACTIVITY ^{240}Pu , $^{245,246}\text{Cm}$, $^{250}\text{Cf}(\alpha)$ [from ^{250}Cf]; measured $E\alpha$, $I\alpha$; deduced $T_{1/2}$, α -decay energies, $P\alpha$. Compared to published data. CONF Nice (Nucl Data for Sci and Technol) Proc,P93 |

A=251

- | | | |
|-------------------|----------|--|
| ^{251}Cf | 2009K0ZV | RADIOACTIVITY $^{253,254}\text{Es}(\alpha)$, $^{255}\text{Fm}(\alpha)$; measured $E\alpha$, $I\alpha$, $E\gamma$, $I\gamma$, $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced $^{249,250}\text{Bk}$, ^{251}Cf E, J, π , vibrational bands; $^{243}\text{Cm}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced α emission probabilities; $^{249}\text{Cf}(\alpha)$; measured $E\alpha$, $I\alpha$; deduced ^{245}Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev |
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A=252

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|-------------------|----------|---|
| ^{252}Cf | 2009RZ02 | RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$, $\gamma(t)$, and isomer half-lives using EUROGAM2 array. $^{142,144}\text{Cs}$; deduced levels, J, π , bands, isomers and configurations. Comparison with quasiparticle rotor model (QPRM) calculations. JOUR PRVCA 80 064317 |
| | 2010LI03 | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, $\gamma\gamma(\theta)$ using Gammasphere array. ^{135}Te , ^{136}I , ^{137}Xe , ^{138}Cs ; deduced levels, J, π . Comparison with shell model calculations. JOUR PRVCA 81 014316 |
| | 2010LUZZ | RADIOACTIVITY $^{252}\text{Cf}(\text{SF})$; $^{108,110,112}\text{Ru}$; measured $E\gamma$, $I\gamma$, $\gamma\gamma\gamma$ -coin.; deduced level schemes, mixing ratios, bands, J, π , angular correlations, level energies, corrected values for γ -cascade in ^{110}Ru . PC J H. Hamilton,2/11/2010 |
| | 2010R004 | NUCLEAR REACTIONS $^{235}\text{U}(\text{n}, \text{F})$, $E=0.1\text{-}1\text{ keV}$; measured fission fragments, fission σ , yield, TKE trends and fission mode ratio trends in resonance region, pre- and post-neutron emission mass distributions in lead-slowing down spectrometer (LSDS). $^{252}\text{Cf}(\text{SF})$; used as a reference. Comparisons with ENDF / B-VII.0. JOUR PRVCA 81 014607 |
| | 2010SI03 | RADIOACTIVITY ^{248}Cm , $^{252}\text{Cf}(\text{SF})$; measured $E\gamma$, $I\gamma$, $\gamma\gamma$ -coin, and half-lives using Gammasphere and Eurogam-II arrays. ^{151}Ce , ^{153}Nd ; deduced levels, J, π , bands, and configurations. Comparison with quasiparticle-rotor-model (QPRM) calculations. ^{151}Ce , ^{153}Nd , ^{155}Sm , ^{157}Gd , ^{159}Dy ; systematics of bandheads. JOUR PRVCA 81 024313 |

KEYNUMBERS AND KEYWORDS

A=253

²⁵³Es 2009K0ZV RADIOACTIVITY ^{253,254}Es(α), ²⁵⁵Fm(α); measured E α , I α , E γ , I γ , $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced ^{249,250}Bk, ²⁵¹Cf E, J, π , vibrational bands; ²⁴³Cm(α); measured E α , I α ; deduced α emission probabilities; ²⁴⁹Cf(α); measured E α , I α ; deduced ²⁴⁵Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev

A=254

²⁵⁴Es 2009K0ZV RADIOACTIVITY ^{253,254}Es(α), ²⁵⁵Fm(α); measured E α , I α , E γ , I γ , $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced ^{249,250}Bk, ²⁵¹Cf E, J, π , vibrational bands; ²⁴³Cm(α); measured E α , I α ; deduced α emission probabilities; ²⁴⁹Cf(α); measured E α , I α ; deduced ²⁴⁵Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev

A=255

²⁵⁵Fm 2009K0ZV RADIOACTIVITY ^{253,254}Es(α), ²⁵⁵Fm(α); measured E α , I α , E γ , I γ , $\alpha\gamma$ -coin., $\gamma\gamma$ -coin.; deduced ^{249,250}Bk, ²⁵¹Cf E, J, π , vibrational bands; ²⁴³Cm(α); measured E α , I α ; deduced α emission probabilities; ²⁴⁹Cf(α); measured E α , I α ; deduced ²⁴⁵Cm half-life. CONF Cologne (Capture Gamma-Ray Spectroscopy) Proc,P199,Kondev

A=256

No references found

A=257

No references found

A=258

No references found

A=259

No references found

A=260

No references found

A=261

No references found

A=262

No references found

A=263

No references found

A=264

No references found

A=265

No references found

A=266

No references found

A=267

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A=268

No references found

A=269

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A=270

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A=271

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A=272

No references found

A=273

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A=274

No references found

A=275

No references found

A=276

No references found

A=277

No references found

A=278

No references found

A=279

No references found

A=280

No references found

KEYNUMBERS AND KEYWORDS

A=281

No references found

A=282

No references found

A=283

²⁸³112 2010EI01 RADIOACTIVITY ^{287,288}114(α); measured atomic properties of element 114; deduced volatility. Comparison with Hg, At, and element 112. JOUR RAACA 98 133

A=284

²⁸⁴112 2010EI01 RADIOACTIVITY ^{287,288}114(α); measured atomic properties of element 114; deduced volatility. Comparison with Hg, At, and element 112. JOUR RAACA 98 133

A=285

No references found

A=286

No references found

A=287

²⁸⁷114 2010EI01 RADIOACTIVITY ^{287,288}114(α); measured atomic properties of element 114; deduced volatility. Comparison with Hg, At, and element 112. JOUR RAACA 98 133

A=288

²⁸⁸114 2010EI01 RADIOACTIVITY ^{287,288}114(α); measured atomic properties of element 114; deduced volatility. Comparison with Hg, At, and element 112. JOUR RAACA 98 133

A=289

No references found

KEYNUMBERS AND KEYWORDS

A=290

No references found

A=291

No references found

A=292

$^{292}_{122}$	2010MA03	ATOMIC MASSES $^{292}_{122}$; measured masses and relative abundances using inductively coupled plasma sector field mass spectrometry; deduced superheavy nucleus with A=292, $T_{1/2}$, long-lived isomeric state. JOUR IMPEE 19 131
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References

- 2008BEZM E.Berthoumieux, for the n-TOF Collaboration - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.571 (2008); EDP Sciences, 2008
Simultaneous measurement of the neutron capture and fission yields of ^{233}U
- 2008BEZO G.Belier, O.Roig, V.Meot, J.Aupiais, J.-M.Daugas, Ch.Jutier, G.Le Petit, A.Letourneau, F.Marie, Ch.Veyssiere - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.463 (2008); EDP Sciences, 2008
Indirect and direct measurement of thermal neutron acceleration by inelastic scattering on the ^{177}Lu isomer
- 2008BOZM A.Borella, T.Belgya, E.Berthoumieux, N.Colonna, C.Domingo-Pardo, J.C.Drohe, F.Gunsing, S.Marrone, T.Martinez, C.Massimi, P.M.Mastinu, P.M.Milazzo, P.Schillebeeckx, G.Tagliente, J.Tain, R.Terlizzi, R.Wynants - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.563 (2008); EDP Sciences, 2008
Measurements of the branching ratio of the $^{209}\text{Bi}(n, \gamma)^{210g}\text{Bi} / ^{210m}\text{Bi}$ reactions at GELINA
- 2008BRZX T.A.Bredeweg, U.Agvaanluvsan, J.A.Becker, E.M.Bond, A.J.Couture, T.Ethvignot, J.R.Fitzpatrick, M.M.Fowler, T.Granier, R.C.Haight, T.S.Hill, M.Jandel, R.A.Macri, J.M.O'Donnell, W.E.Parker, R.Reifarh, R.S.Rundberg, A.K.Slemmons, F.K.Tovesson, J.L.Ullmann, D.J.Vieira, J.B.Wilhelmy, P.A.Wilk, J.M.Wouters, C.Y.Wu - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.607 (2008); EDP Sciences, 2008
Recent actinide nuclear data efforts with the DANCE 4π BaF₂ array
- 2008COZW A.Couture, R.Reifarh, J.D.Baker, T.A.Bredeweg, R.C.Haight, M.Jandel, A.F.Mertz, J.M.O'Donnell, R.S.Rundberg, J.L.Ullmann, D.J.Viera, J.M.Wouters - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.579 (2008); EDP Sciences, 2008
Neutron capture measurements on Tl-isotopes at DANCE
- 2008COZX S.Cowell, P.Talou, T.Kawano, M.B.Chadwick - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.247 (2008); EDP Sciences, 2008
Evaluation of iridium (n, xn) reactions
- 2008DAZW D.Dashdorj, T.Kawano, G.E.Mitchell, J.A.Becker, U.Agvaanluvsan, M.Chadwick, J.R.Cooper, M.Devlin, N.Fotiades, P.E.Garrett, S.Kunieda, R.O.Nelson, C.Y.Wu, W.Younes - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.231 (2008); EDP Sciences, 2008

REFERENCES

- Effect of pre-equilibrium spin distribution on neutron induced ^{150}Sm cross sections
- 2008DIZT I.Dillmann, R.Plug, C.Domingo-Pardo, M.Heil, F.Kappeler, T.Rauscher, F.-K.Thielemann - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.575 (2008); EDP Sciences, 2008
New stellar (n, γ) cross sections and the "Karlsruhe Astrophysical Database of Nucleosynthesis in Stars"
- 2008ESZY J.Escher, L.A.Bernstein, J.Burke, F.S.Dietrich, C.Forssen, B.F.Lyles - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.325 (2008); EDP Sciences, 2008
Surrogate reactions: the Weisskopf-Ewing approximation and its limitations
- 2008FOZY E.F.Fomushkin, M.F.Andreev, S.N.Abramovich - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.119 (2008); EDP Sciences, 2008
On a problem of assumed ^{232m}Pa isomer characteristics
- 2008GIZY G.Giorginis, V.Khryachkov, V.Corcalciuc, M.Kievets - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.525 (2008); EDP Sciences, 2008
The cross section of the $^{16}\text{O}(n, \alpha)^{13}\text{C}$ reaction in the MeV energy range
- 2008GUZQ K.H.Guber, P.E.Koehler, D.Wiarda, J.A.Harvey, T.E.Valentine, R.O.Sayer, L.L.Leal, N.M.Larson, T.S.Bigelow, C.Ausmus, D.R.Brashear, R.B.Overton, J.A.White, V.M.Cauley - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.403 (2008); EDP Sciences, 2008
New neutron cross section measurements from ORELA and new resonance parameter evaluations
- 2008HAZO H.Hayashi, I.Miyazaki, M.Shibata, Y.Kojima, A.Taniguchi - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.131 (2008); EDP Sciences, 2008
 Q_β measurements of neutron-rich isotopes with a total-absorption type Ge detector using the KUR-ISOL
- 2008HAZP T.Hayakawa, S.Miyamoto, Y.Hayashi, K.Kawase, K.Horikawa, S.Chiba, K.Nakanishi, H.Hashimoto, T.Ohta, M.Kando, T.Mochizuki, T.Kajino, M.Fujiwara - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.73 (2008); EDP Sciences, 2008
Half-life of ^{184}Re populated by photodisintegration reaction with Laser Compton scattering γ -rays at NewSUBARU

REFERENCES

- 2008JUZY B.Jurado, G.Kessedjian, M.Aiche, G.Barreau, A.Bidaud, S.Czajkowski, D.Dassie, B.Haas, L.Mathieu, B.Osmanov, L.Audouin, N.Capellan, L.Tassan-Got, J.N.Wilson, E.Berthoumieux, F.Gunsing, Ch.Theisen, O.Serot, E.Bauge, I.Ahmad, J.P.Greene, R.V.F.Janssens - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.331 (2008); EDP Sciences, 2008
Determination of minor-actinides fission cross sections by means of the surrogate reaction method
- 2008KIZS G.Kim, A.K.M.M.H.Meaze, M.U.Khandaker, M.Lee, K.Kim, Y.S.Lee, Y.D.Oh, H.Kang, M.-H.Cho, I.S.Ko, W.Namkung, Y.-A.Kim, K.J.Yoo, Y.-O.Lee - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.533 (2008); EDP Sciences, 2008
Measurement of the neutron total cross sections of Ta and Mo and proton induced reaction cross sections of ^{nat}Mo
- 2008KOZO Y.Kojima, M.Shibata, A.Taniguchi, A.Murataka, K.Ota, K.Shizuma - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.115 (2008); EDP Sciences, 2008
Search for isomeric transitions in fission products around mass number 150
- 2008KOZP F.G.Kondev, M.A.Kellett, I.Ahmad, J.P.Greene, A.L.Nichols - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.93 (2008); EDP Sciences, 2008
Experimental studies to improve specific actinide decay data
- 2008KUZY T.Kurtukian-Nieto, J.Benlliure, K.-H.Schmidt, L.Audouin, F.Becker, B.Blank, E.Casarejos, D.Cortina-Gil, M.Fernandez-Ordonez, J.Giovinazzo, D.Henzlova, B.Jurado, J.Pereira, F.Rejmund, O.Yordanov - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.47 (2008); EDP Sciences, 2008
New technique to determine beta half-lives in complex background conditions
- 2008LAZT C.Lampoudis, for the n-TOF Collaboration - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.595 (2008); EDP Sciences, 2008
The ^{234}U neutron capture cross section measurement at the n-TOF facility
- 2008LAZU J.-M.Laborie, X.Ledoux, C.Varignon, R.Lazauskas, B.Morillon, G.Belier, D.Dore, N.Arnal - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.437 (2008); EDP Sciences, 2008
Measurement of the $\text{D}(n, 2n)\text{p}$ reaction cross section up to 30 MeV
- 2008LEZO P.Leconte, J.-P.Hudelot, M.Antony, D.Bernard - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.521 (2008); EDP Sciences, 2008

REFERENCES

- Measurement of gamma-ray emission probabilities using a combination of activation and oscillation techniques: applications to ^{171}Er , ^{181}Hf , ^{233}Pa and ^{243}Pu
- 2008MIZR M.Mizumoto, M.Igashira, T.Ohsaki, T.Katabuchi, M.Oshima, M.Koizumi, Y.Toh, A.Kimura, H.Harada, K.Furutaka, S.Nakamura, F.Kitatani, J.Hori, J.Goto - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.591 (2008); EDP Sciences, 2008
Neutron capture cross section measurements on ^{237}Np with a 4π Ge spectrometer
- 2008MIZT I.Miyazaki, H.Hayashi, A.Tojo, A.Taniguchi, M.Shibata - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.451 (2008); EDP Sciences, 2008
Development of a determination method of the prompt γ -ray emission probability for the measurement of neutron capture cross sections
- 2008NIZU J.Nishiyama, T.I.Ro, M.Igashira, W.C.Chung, G.Kim, T.Ohsaki, S.Lee, T.Katabuchi - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.615 (2008); EDP Sciences, 2008
Measurements of keV-neutron capture cross sections and capture gamma-ray spectra for Sn and Gd isotopes
- 2008OBZZ S.Oberstedt, A.Oberstedt, A.Plompen, V.Semkova, G.Lovestam, M.Gawrys - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.53 (2008); EDP Sciences, 2008
Research on isomer decay with the NEPTUNE spectrometer
- 2008PAZR W.E.Parker, S.A.Sheets, U.Agyaanluvsan, J.A.Becker, F.Becvar, T.A.Bredeweg, R.Clement, A.Couture, E.Esch, R.C.Haight, M.Jandel, M.Krticka, G.E.Mitchell, R.Macri, J.M.O'Donnell, R.Reifarh, R.S.Rundberg, J.M.Schwantes, J.L.Ullmann, D.J.Vieira, J.M.Wouters, P.A.Wilk - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.491 (2008); EDP Sciences, 2008
Review of Livermore-led neutron capture studies using DANCE
- 2008RAZZ A.K.M.L.Rahman, S.Kuwabara, K.Kato, H.Arima, N.Shigyo, K.Ishibashi, J.-i.Hori, K.Nakajima, T.Goto, M.Uematsu - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.529 (2008); EDP Sciences, 2008
Measurement of inclusive photonuclear (γ , n) reaction cross section for ^{129}I
- 2008SAZR C.Sage, E.Berthoumieux, O.Bouland, F.Gunsing, A.J.M.Plompen, P.Schillebeeckx, P.Siegler, N.van Opstal, R.Wynants - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.583 (2008); EDP Sciences, 2008
A new high efficiency array of C_6D_6 detectors for capture cross section measurements at GELINA

REFERENCES

- 2008SEZT V.Semkova, R.Capote, R.J.Tornin, A.J.Koning, A.Moens, A.J.M.Plompen - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.559 (2008); EDP Sciences, 2008
New cross section measurements for neutron-induced reactions on Cr, Ni, Cu, Ta and W isotopes obtained with the activation technique
- 2008SEZU M.S.Segovia, M.C.Fornaciari Iljadica, M.A.Arribere, I.M.Cohen - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.509 (2008); EDP Sciences, 2008
Bases for the correct determination of resonance integrals of reactions leading to isomeric states: application to some reactions induced on zinc
- 2008S020 A.Solders, I.Bergstrom, Sz.Nagy, M.Suhonen, R.Schuch - Phys.Rev. A 78, 012514 (2008)
Determination of the proton mass from a measurement of the cyclotron frequencies of D and H_2^+ in a Penning trap
- 2008SUZQ S.Sudar, K.Hilgers, M.Al-Abyad, S.M.Qaim - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.467 (2008); EDP Sciences, 2008
Formation of high-spin neodymium and mercury isomers in neutron and charged particle induced nuclear reactions
- 2008VIZX D.J.Vieira, M.Jandel, T.A.Bredeweg, E.M.Bond, R.R.Clement, A.Couture, R.C.Haight, J.M.O'Donnell, R.Reifarth, R.S.Rundberg, J.L.Ullmann, J.B.Wilhelmy, J.M.Wouters, A.P.Tonchev, A.Hutcheson, C.T.Angell, A.S.Crowell, B.Fallin, S.Hammond, C.R.Howell, H.J.Karowowski, J.H.Kelley, R.Pedroni, W.Tornow, R.A.Macri, U.Agvaanluvsan, J.A.Becker, D.Dashdorj, M.A.Stoyer, C.Y.Wu - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.551 (2008); EDP Sciences, 2008
Neutron capture and (n, 2n) measurements on ^{241}Am
- 2008VLZZ R.Vlastou, C.T.Papadopoulos, M.Kokkoris, G.Perdikakis, S.Galanopoulos, N.Patronis, M.Serris, S.Harissopoulos, P.Demetriou - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.471 (2008); EDP Sciences, 2008
Isomeric cross sections of neutron induced reactions on Ge and Ir isotopes
- 2008WEZX J.L.Weil, T.Belgya, H.-F.Wirth - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.611 (2008); EDP Sciences, 2008
The $^{99}\text{Tc}(n, \gamma)^{100}\text{Tc}$ cross section, $^{99}\text{Tc}(d, p)^{100}\text{Tc}$ and the ^{100}Tc decay scheme and neutron binding energy

REFERENCES

- 2008XXZY E.F.Fomushkin, V.V.Gavrilov, M.F.Andreev, A.M.Shvetsov, V.N.Vyachin, N.I.Iosilevich, A.A.Portnov, V.I.Kvasov, A.F.Kozhin, A.F.Redkin, M.Chadwick, T.Kawano - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.425 (2008); EDP Sciences, 2008
Measurement of the ^{242g}Am ($T_{1/2} = 16.02$ hour) fission cross section
- 2008ZAZY G.S.Zahn, F.A.Genezini, C.B.Zamboni, M.T.F.da Cruz - Proc.Intern.Conf.Nuclear Data for Science and Technology, Nice, France, April 22-27, 2007, O.Bersillon, F.Gunsing, E.Bauge, R.Jacqmin, and S.Leray, Eds., p.455 (2008); EDP Sciences, 2008
A new procedure to analyze angular correlation experimental data
- 2009ACZZ N.L.Achouri, J.-C.Angelique, G.Ban, B.Bastin, B.Blank, S.Dean, P.G.Dendooven, J.Giovinazzo, S.Grevy, K.Jungmann, B.Laurent, E.Lienard, O.Naviliat-Cuncic, N.A.Orr, A.Rogachevskiy, M.Sohani, E.Traykov, H.Wilschut - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.362 (2009); AIP Conf.Proc. 1090 (2009)
Measurement of the Gamow-Teller Branching Ratio in the β -Decay of ^{21}Na
- 2009AG13 M.Agnello, A.Andronenkov, G.Beer, L.Benussi, M.Bertani, H.C.Bhang, G.Bonomi, E.Botta, M.Bregant, T.Bressani, S.Bufalino, L.Busso, D.Calvo, P.Camerini, B.Dalena, F.De Mori, G.D'Erasmo, F.L.Fabbri, A.Feliciello, A.Filippi, E.M.Fiore, A.Fontana, H.Fujioka, P.Genova, P.Gianotti, N.Grion, O.Hartmann, B.Kang, V.Lenti, V.Lucherini, S.Marcello, T.Maruta, N.Mirfakhra, P.Montagna, O.Morra, T.Nagae, D.Nakajima, H.Outa, E.Pace, M.Palomba, A.Pantaleo, A.Panzarasa, V.Paticchio, S.Piano, F.Pompili, R.Rui, A.Sanchez Lorente, M.Sekimoto, G.Simonetti, A.Toyodav R.Wheadon, A.Zenon - Nucl.Phys. A827, 303c (2009)
Mesonic and Non-Mesonic Weak Decay of Hypernuclei with FINUDA
- 2009AL29 N.Al-Dahan, Zs.Podolyak, P.H.Regan, M.Gorska, H.Grawe, K.H.Maier, J.Gerl, S.B.Pietri, H.J.Wollersheim, N.Alkhomashi, A.Y.Deo, A.M.D.Bacelar, G.Farrelly, S.J.Steer, A.M.Bruce, P.Boutachkov, C.Domingo-Pardo, A.Algora, J.Benlliure, A.Bracco, E.Calore, E.Casarejos, I.J.Cullen, P.Detistov, Zs.Dombradi, M.Doncel, F.Farinon, W.Gelletly, H.Geissel, N.Goel, J.Grebosz, R.Hoischen, I.Kojouharov, N.Kurz, S.Lalkovski, S.Leoni, F.Molina, D.Montanari, A.I.Morales, A.Musumarra, D.R.Napoli, R.Nicolini, C.Nociforo, A.Prochazka, W.Prokopowicz, B.Rubio, D.Rudolph, H.Schaffner, P.Strmen, I.Szarka, T.Swan, J.S.Thomas, J.J.Valiente-Dobon, S.Verma, P.M.Walker, H.Weick - Phys.Rev. C 80, 061302 (2009)
Nuclear structure "southeast" of ^{208}Pb : Isomeric states in ^{208}Hg and ^{209}Tl
- 2009AL30 N.Alkhomashi, P.H.Regan, Zs.Podolyak, S.Pietri, A.B.Garnsworthy, S.J.Steer, J.Benlliure, E.Casarejos, R.F.Casten, J.Gerl, H.J.Wollersheim, J.Grebosz, G.Farrelly, M.Gorska, I.Kojouharov, H.Schaffner, A.Algora, G.Benzoni, A.Blazhev, P.Boutachkov, A.M.Bruce, A.M.D.Bacelar, I.J.Cullen, L.Caceres, P.Doornenbal, M.E.Estevez, Y.Fujita, W.Gelletly, R.Hoischen, R.Kumar, N.Kurz, S.Lalkovski, Z.Liu, C.Mihai, F.Molina, A.I.Morales, D.Mucher, W.Prokopowicz, B.Rubio, Y.Shi, A.Tamii, S.Tashenov, J.J.Valiente-Dobon, P.M.Walker, P.J.Woods, F.R.Xu - Phys.Rev. C 80, 064308 (2009)

REFERENCES

β^+ -delayed spectroscopy of neutron-rich tantalum nuclei: Shape evolution in neutron-rich tungsten isotopes

- 2009ALZV M.Albers, D.Mucher, J.Jolie, C.Bernards, A.Blazhev, C.Fransen, P.Petkov, D.Radeck, K.O.Zell - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.399 (2009); AIP Conf.Proc. 1090 (2009) Study of collectivity in ^{62}Zn
- 2009ALZW A.Algora, D.Jordan, J.L.Tain, B.Rubio, J.Agramunt, A.B.Perez-Cerdan, F.Molina, L.Caballero, E.Nacher, A.Krasznahorkay, M.D.Hunyadi, J.Gulyas, A.Vitez, M.Csatlos, L.Csige, J.Aysto, H.Penttila, I.D.Moore, T.Eronen, A.Jokinen, A.Nieminen, J.Hakala, P.Karvonen, A.Kankainen, A.Saastamoinen, J.Rissanen, T.Kessler, C.Weber, J.Ronkainen, S.Rahaman, V.Elomaa, U.Hager, S.Rinta-Antilla, T.Sonoda, K.Burkard, W.Huller, L.Batist, W.Gelletly, T.Yoshida, A.L.Nichols, A.Sonzogni, K.Perajarvi - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.207 (2009); AIP Conf.Proc. 1090 (2009) Applications of the total absorption technique to improve reactor decay heat calculations: study of the beta decay of $^{102,104,105}\text{Tc}$
- 2009AN20 A.N.Andreyev, S.Antalic, D.Ackermann, T.E.Cocolios, V.F.Comas, J.Elseviere, S.Franchoo, S.Heinz, J.A.Heredia, F.P.Hessberger, S.Hofmann, M.Huyse, J.Khuyagbaatar, I.Kojouharov, B.Kindler, B.Lommel, R.Mann, R.D.Page, S.Rinta-Antilla, P.J.Sapple, S.Saro, P.Van Duppen, M.Venhardt, H.V.Watkins - Phys.Rev. C 80, 054322 (2009) α decay of $^{180,181}\text{Pb}$
- 2009BA52 J.C.Batchelder, J.L.Wood, P.E.Garrett, K.L.Green, K.P.Rykaczewski, J.-C.Bilheux, C.R.Bingham, H.K.Carter, D.Fong, R.Grzywacz, J.H.Hamilton, D.J.Hartley, J.K.Hwang, W.Krolas, W.D.Kulp, Y.Larochelle, A.Piechaczek, A.V.Ramayya, E.H.Spejewski, D.W.Stracener, M.N.Tantawy, J.A.Winger, E.F.Zganjar - Phys.Rev. C 80, 054318 (2009) Collective and noncollective states in ^{116}Cd studied via the β decays of $^{116}\text{Ag}^{m1,m2,gs}$
- 2009BAZS M.Balodis, J.Berzins, L.Simonova, V.Bondarenko, T.Krasta, J.Tamberg, A.Jakimovics, I.Tomandl, M.Jentschel, P.Mutti, H.Boerner - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.609 (2009); AIP Conf.Proc. 1090 (2009) Structure of the Odd-Odd Nucleus ^{188}Re
- 2009BE42 Z.Berant, E.Oster, R.J.Casperson, A.Wolf, V.Werner, A.Heinz, R.F.Casten, G.Gurdal, E.A.McCutchan, D.S.Brenner, J.R.Terry, R.Winkler, E.Williams, J.Qian, A.Schmidt, M.K.Smith, T.Ahn, C.W.Beausang, P.H.Regan, T.Ross, M.Bunce, B.Darakchieva, D.A.Meyer, J.LeBlanc, K.Dudziak, C.Bauer, G.Henning - Phys.Rev. C 80, 057303 (2009) g factor of the 2_1^+ state of ^{172}Hf

REFERENCES

- 2009BE44 O.A.Bezshyyko, A.N.Vodin, L.A.Golinka-Bezshyyko, A.N.Dovbnya, I.N.Kadenko, I.S.Kulakov, V.A.Kushnir, V.V.Mitrochenko, S.N.Oleinik, G.E.Tuller - Bull.Rus.Acad.Sci.Phys. 73, 1461 (2009); Izv.Akad.Nauk RAS, Ser.Fiz. 73, 1556 (2009)
Isomer ratios of products from photonuclear reactions on silver and indium nuclei at γ ray energies above 35 MeV
- 2009BE49 L.Bettermann, N.Braun, C.Fransen, S.Heinze, J.Jolie, A.Linnemann, D.Mucher, D.Radeck - Eur.Phys.J. A 42, 7 (2009)
Search for a candidate of the $2_{1,ms}^+$ state in ^{90}Mo
- 2009BEZP L.Bettermann, T.Ahn, A.Costin, C.Fransen, J.Jolie, A.Linnemann, Y.Luo, D.Mucher, N.Pietralla, W.Rother - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.567 (2009); AIP Conf.Proc. 1090 (2009)
Candidate for the one-phonon mixed-symmetry state in ^{130}Xe
- 2009BEZQ T.Belgya, E.Uberseder, D.Petrich, F.Kappeler - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.367 (2009); AIP Conf.Proc. 1090 (2009)
Thermal Neutron Capture Cross Section of ^{22}Ne
- 2009BH09 M.Bhattacharya, C.D.Goodman, A.Garcia - Phys.Rev. C 80, 055501 (2009); Pub note Phys.Rev. C 80, 069901 (2009)
Weak-interaction strength from charge-exchange reactions versus β decay in the A=40 isoquintet
- 2009BIZY P.G.Bizzeti, A.M.Bizzeti-Sona, D.Tonev, C.A.Ur, A.Dewald, A.Giannatiempo, B.Melon, D.Bazzacco, A.Costin, G.de Angelis, F.Della Vedova, M.Fantuzi, E.Farnea, C.Fransen, A.Gadea, S.M.Lenzi, S.Lunardi, N.Marginean, R.Marginean, R.Menegazzo, D.Mengoni, O.Moller, A.Nannini, D.R.Napoli, M.Nespolo, P.an, A.Perego, P.Petkov, C.M.Petrache, N.Pietralla, C.Rossi Alvarez - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.352 (2009); AIP Conf.Proc. 1090 (2009)
Transition probabilities in the X(5) candidate ^{122}Ba
- 2009BRZV N.Braun, C.Fransen, J.Jolie, A.Linnemann, L.Bettermann - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.581 (2009); AIP Conf.Proc. 1090 (2009)
Collective excitations in ^{88}Zr studied with the HORUS spectrometer
- 2009BUZY O.Burda, P.von Neumann-Cosel, A.Richter - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.283 (2009); AIP Conf.Proc. 1090 (2009)

REFERENCES

- Properties of the first $1 / 2^+$ state in ^9Be from electron scattering and astrophysical implications
- 2009CH59 S.K.Chamoli, A.E.Stuchbery, M.C.East - Phys.Rev. C 80, 054301 (2009)
Excited state g factors in ^{125}Te
- 2009CH64 K.A.Chipps, D.W.Bardayan, C.D.Nesaraja, M.S.Smith, J.C.Blackmon, K.Y.Chae, B.H.Moazen, S.T.Pittman, U.Greife, R.Hatarik, W.A.Peters, R.L.Kozub, J.F.Shriener, Jr., C.Matei, S.D.Pain - Phys.Rev. C 80, 065810 (2009)
The $^{17}\text{F}(p, \gamma)^{18}\text{Ne}$ resonant cross section
- 2009CHZW K.A.Chipps, D.W.Bardayan, J.C.Blackmon, K.Y.Chae, U.Greife, R.Hatarik, R.L.Kozub, C.Matei, B.H.Moazen, C.D.Nesaraja, S.D.Pain, W.A.Peters, S.T.Pittman, J.F.Shriener, M.S.Smith - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.471 (2009); AIP Conf.Proc. 1090 (2009)
First Direct Measurement of the $^{17}\text{F}(p, \gamma)^{18}\text{Ne}$ Cross Section
- 2009CHZX M.Chernykh, H.P.Blok, H.Feldmeier, T.Neff, P.von Neumann-Cosel, A.Richter - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.53 (2009); AIP Conf.Proc. 1090 (2009)
Electron scattering on the Hoyle state and carbon production in stars
- 2009CIZY J.A.Cizewski, K.L.Jones, R.L.Kozub, S.D.Pain, J.S.Thomas, G.Arbanas, A.Adekola, D.W.Bardayan, J.C.Blackmon, K.Y.Chae, K.A.Chipps, D.Dean, L.Erikson, A.Gaddis, C.Harlin, R.Hatarik, J.Howard, M.S.Johnson, R.Kapler, W.Krolas, F.Liang, R.J.Livesay, Z.Ma, C.Matei, B.Moazen, C.D.Nesaraja, P.O'Malley, S.V.Paulauskas, D.Shapira, J.F.Shriener, D.J.Sissom, M.S.Smith, T.Swan, G.L.Wilson - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.463 (2009); AIP Conf.Proc. 1090 (2009)
Neutron Transfer Reactions on Neutron-Rich $N=50$ and $N=82$ Nuclei Near the r-Process Path
- 2009C024 L.Coquard, N.Pietralla, T.Ahn, G.Rainovski, L.Bettermann, M.P.Carpenter, R.V.F.Janssens, J.Leske, C.J.Lister, O.Moller, W.Rother, V.Werner, S.Zhu - Phys.Rev. C 80, 061304 (2009)
Robust test of E(5) symmetry in ^{128}Xe
- 2009C0ZX T.E.Cocolios, A.N.Andreyev, B.Bastin, N.Bree, J.Buscher, J.Elseviens, J.Gentens, M.Huyse, Yu.Kudryavtsev, D.Pauwels, T.Sonoda, P.Van den Bergh, P.Van Duppen - Priv.Comm. (2009)
The Magnetic dipole moments of $^{57,58,59}\text{Cu}$

REFERENCES

- 2009COZY L.Coquard, T.Ahn, G.Rainovski, N.Pietralla, J.Leske, O.Moller, T.Moller, M.Carpenter, R.V.F.Janssens, C.J.Lister, S.Zhu, L.Bettermann, W.Rother - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.140 (2009); AIP Conf.Proc. 1090 (2009)
Evolution of the one-phonon mixed-symmetry $2_{1,ms}^+$ state in even-even Xe isotopes from inverse-kinematics Coulomb excitation
- 2009DEZT M.Devlin, T.N.Taddeucci, G.M.Hale, R.C.Haight, J.M.O'Donnell - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.215 (2009); AIP Conf.Proc. 1090 (2009)
Differential Cross Section Measurements for the ${}^6\text{Li}(n, t)\alpha$ Reaction in the Few MeV Region
- 2009DOZZ C.Domingo-Pardo, I.Dillmann, T.Faestermann, U.Giesen, J.Gorres, M.Heil, S.Horn, F.Kappeler, S.Kochli, G.Korschinek, J.Lachner, M.Maiti, J.Marganec, J.Neuhausen, R.Nolte, M.Poutivtsev, R.Reifarth, R.Rugel, D.Schumann, E.Uberseder, F.Voss, S.Walter, M.Wiescher - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.230 (2009); AIP Conf.Proc. 1090 (2009)
s-process nucleosynthesis in massive stars: new results on ${}^{60}\text{Fe}$, ${}^{62}\text{Ni}$ and ${}^{64}\text{Ni}$
- 2009DR12 G.D.Dracoulis, G.J.Lane, A.P.Byrne, P.M.Davidson, T.Kibedi, P.H.Nieminen, H.Watanabe, A.N.Wilson, H.L.Liu, F.R.Xu - Phys.Rev. C 80, 054320 (2009)
Structure of the N=126 nuclide ${}^{212}\text{Rn}$: Valence and core excited configurations
- 2009EK01 A.Ekstrom, J.Cederkall, D.D.DiJulio, C.Fahlander, M.Hjorth-Jensen, A.Blazhev, B.Bruyneel, P.A.Butler, T.Davinson, J.Eberth, C.Fransen, K.Geibel, H.Hess, O.Ivanov, J.Iwanicki, O.Kester, J.Kownacki, U.Koster, B.A.Marsh, P.Reiter, M.Scheck, B.Siebeck, S.Siem, I.Stefanescu, H.K.Toft, G.M.Tveten, J.Van de Walle, D.Voulot, N.Warr, D.Weisshaar, F.Wenander, K.Wrzosek, M.Zielinska - Phys.Rev. C 80, 054302 (2009)
Electric quadrupole moments of the 2_1^+ states in ${}^{100,102,104}\text{Cd}$
- 2009ENZY J.Endres, A.Zilges, N.Pietralla, D.Savran, K.Sonnabend, M.N.Harakeh, V.Stoica, H.Wortche, P.Butler, R.D.Herzberg, M.Scheck, R.Krucken, L.Popescu, S.Harissopulos, A.Lagoyannis - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.357 (2009); AIP Conf.Proc. 1090 (2009)
Study of the Pygmy Dipole Resonance in ${}^{124}\text{Sn}$ by means of the $(\alpha, \alpha'\gamma)$ reaction
- 2009ER07 T.Eronen, V.-V.Elomaa, J.Hakala, J.C.Hardy, A.Jokinen, I.D.Moore, M.Reponen, J.Rissanen, A.Saastamoinen, C.Weber, J.Aysto - Phys.Rev.Lett. 103, 252501 (2009)
 Q_{EC} Values of the Superallowed β Emitters ${}^{34}\text{Cl}$ and ${}^{38}\text{K}^m$

REFERENCES

- 2009FRZX M.Fritzsche, N.Pietralla, M.W.Ahmed, G.Rusev, D.Savran, A.P.Tonchev, H.R.Weller, Zweidinger - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.591 (2009); AIP Conf.Proc. 1090 (2009)
Weak-coupling of the neutron hole in ^{207}Pb to dipole excitations of ^{208}Pb
- 2009FRZZ C.Fransen, A.Blazhev, A.Dewald, J.Jolie, D.Mucher, O.Moller, T.Pissulla - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.529 (2009); AIP Conf.Proc. 1090 (2009)
Collectivity of ^{98}Pd
- 2009FU17 M.Fukada, M.K.Takimoto, K.Ogino, S.Ohkubo - Phys.Rev. C 80, 064613 (2009)
 α cluster states in $^{44,46,52}\text{Ti}$
- 2009GA40 A.B.Garnsworthy, P.H.Regan, S.Pietri, Y.Sun, F.R.Xu, D.Rudolph, M.Gorska, L.Caceres, Zs.Podolyak, S.J.Steer, R.Hoischen, A.Heinz, F.Becker, P.Bednarczyk, P.Doornenbal, H.Geissel, J.Gerl, H.Grawe, J.Grebosz, A.Kelic, I.Kojouharov, N.Kurz, F.Montes, W.Prokopwicz, T.Saito, H.Schaffner, S.Tachenov, E.Werner-Malento, H.J.Wollersheim, G.Benzoni, B.Blank, C.Brandau, A.M.Bruce, F.Camera, W.N.Catford, I.J.Cullen, Zs.Dombradi, E.Estevez, W.Gelletly, G.Ilie, J.Jolie, G.A.Jones, A.Jungclaus, M.Kmiecik, F.G.Kondev, T.Kurtukian-Nieto, S.Lalkovski, Z.Liu, A.Maj, S.Myalski, M.Pfutzner, S.Schwertel, T.Shizuma, A.J.Simons, P.M.Walker, O.Wieland - Phys.Rev. C 80, 064303 (2009)
Isomeric states in neutron-deficient $A \sim 80\text{-}90$ nuclei populated in the fragmentation of ^{107}Ag
- 2009GAZW P.E.Garrett, W.D.Kulp, J.L.Wood, J.M.Allmond, D.Bandyopadhyay, S.Christen, S.N.Choudry, D.Cline, D.Dashdorj, A.Dewald, A.Fitzler, C.Fransen, A.B.Hayes, H.Hua, K.Jessen, J.Jolie, A.Kloezer, P.Kudejova, A.Kumar, S.R.Lesher, A.Linnemann, A.Lisetskiy, D.Martin, M.Masur, M.T.McEllistrem, O.Moller, M.G.Mynk, C.J.McKay, J.N.Orce, P.Pejovic, T.Pissulla, J.-M.Regis, A.Schiller, R.Teng, D.Tonev, C.Y.Wu, S.W.Yates - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.391 (2009); AIP Conf.Proc. 1090 (2009)
Investigation of ^{152}Sm by Complementary Reactions
- 2009GE14 J.Gellanki, I.Ragnarsson, D.Rudolph, C.E.Svensson, L.-L.Andersson, C.Andreoiu, C.Baktash, M.P.Carpenter, R.J.Charity, C.J.Chicara, J.Eberth, J.Ekman, C.Fahlander, D.S.Haslip, E.K.Johansson, D.R.LaFosse, S.D.Paul, O.L.Pechenaya, W.Reviol, R.du Rietz, D.G.Sarantites, D.Seweryniak, L.G.Sobotka, H.G.Thomas, D.A.Torres, J.C.Waddington, J.N.Wilson, C.H.Yu, S.Zhu - Phys.Rev. C 80, 051304 (2009)
Characterization of superdeformed bands in ^{62}Zn

REFERENCES

- 2009HA42 B.Hadinia, B.Cederwall, R.D.Page, M.Sandzelius, C.Scholey, K.Andgren, T.Back, E.Ganioglu, M.B.Gomez Hornillos, T.Grahn, P.T.Greenlees, E.Ideguchi, U.Jakobsson, A.Johnson, P.M.Jones, R.Julin, J.Juutinen, S.Ketelhut, A.Khaplanov, M.Leino, M.Niikura, M.Nyman, I.Ozgun, E.S.Paul, P.Peura, P.Rahkila, J.Saren, J.Sorri, J.Uusitalo, R.Wyss - Phys.Rev. C 80, 064310 (2009)
Identification of γ rays from ^{172}Au and α decays of ^{172}Au , ^{168}Ir , and ^{164}Re
- 2009HAZW R.Hatarik, L.A.Bernstein, J.T.Burke, D.L.Bleuel, J.A.Cizewski, J.Gibelin, A.M.Hatarik, S.R.Lesher, P.D.O'Malley, L.Phair, T.Swan - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.445 (2009); AIP Conf.Proc. 1090 (2009)
Using $(d, p\gamma)$ as a surrogate reaction for (n, γ)
- 2009HAZX J.Hasper, S.Muller, D.Savran, L.Schnorrenberger, K.Sonnabend, A.Zilges - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.298 (2009); AIP Conf.Proc. 1090 (2009)
Investigation of photodisintegration reactions for the p-process reaction network
- 2009HE22 M.He, H.Shen, G.Shi, X.Yin, W.Tian, S.Jiang - Phys.Rev. C 80, 064305 (2009)
Half-life of ^{151}Sm remeasured
- 2009IGZZ M.Igashira, S.Kamada, T.Katabuchi, M.Mizumoto - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.376 (2009); AIP Conf.Proc. 1090 (2009)
Measurement of keV-Neutron Capture Gamma Rays for Se Isotopes
- 2009IL01 S.V.Ilyushkin, J.A.Winger, C.J.Gross, K.P.Rykaczewski, J.C.Batchelder, L.Cartegni, I.G.Darby, C.Goodin, R.Grzywacz, J.H.Hamilton, A.Korgul, W.Krolas, S.N.Liddick, C.Mazzocchi, S.Padgett, A.Piechaczek, M.M.Rajabali, D.Shapira, E.F.Zganjar - Phys.Rev. C 80, 054304 (2009)
 β decay of the $\pi f_{5/2}$ ground state of ^{77}Cu studied with 225 MeV and 0.2 MeV purified radioactive beams
- 2009IWZZ H.Iwasaki - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.440 (2009); AIP Conf.Proc. 1090 (2009)
Lifetime measurement of low-lying excited states in neutron-rich B and C isotopes
- 2009JAZY M.Jandel, T.A.Bredeweg, M.A.Stoyer, C.Y.Wu, M.M.Fowler, J.A.Becker, E.M.Bond, A.Couture, R.C.Haight, R.J.Haslett, R.A.Henderson, A.L.Keksis, J.M.O'Donnell, R.S.Rundberg, J.L.Ullmann, D.J.Vieira, J.B.Wilhelmy, J.M.Wouters - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.220 (2009); AIP Conf.Proc. 1090 (2009)
Neutron capture and neutron-induced fission experiments on americium isotopes with DANCE

REFERENCES

- 2009KA37 A.S.Kachan, I.V.Kurguz, I.S.Kovtunenکو, V.M.Mischenko, V.A.Panin - Bull.Rus.Acad.Sci.Phys. 73, 1506 (2009); Izv.Akad.Nauk RAS, Ser.Fiz. 73, 1601 (2009)
Total strength of the magnetic dipole resonance in ^{31}P
- 2009KIZW T.Kin, M.Oshima, K.Furutaka, M.Koizumi, Y.Toh, A.Kimura - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.575 (2009); AIP Conf.Proc. 1090 (2009)
Identification of Nuclear Levels of ^{34}S for Determination of the Neutron Capture Cross Section
- 2009KIZX G.G.Kiss, Gy.Gyurky, A.Simon, Zs.Fulop, E.Somorjai, T.Rauscher - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.476 (2009); AIP Conf.Proc. 1090 (2009)
The $^{85}\text{Rb}(p, n)^{85}\text{Sr}$ reaction and the modified proton optical potential
- 2009KOZU P.E.Koehler, T.A.Bredeweg, K.H.Guber, J.A.Harvey, J.M.O'Donnell, R.Reifarth, R.S.Rundberg, J.L.Ullmann, D.J.Vieira, D.Wiarda, J.M.Wouters - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.424 (2009); AIP Conf.Proc. 1090 (2009)
Non-Statistical Effects in Neutron Capture
- 2009KOZV F.G.Kondev, I.Ahmad, M.P.Carpenter, C.J.Chicara, J.P.Greene, R.V.F.Janssens, M.A.Kellett, T.L.Khoo, T.Lauritsen, C.J.Lister, E.F.Moore, A.L.Nichols, D.Seweryniak, S.Zhu - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.199 (2009); AIP Conf.Proc. 1090 (2009)
Studies of Nuclear Structure and Decay Properties of Actinide Nuclei
- 2009KU24 R.Kumar, I.M.Govil, A.Dhal, L.Chaturvedi, C.R.Praharaj, A.K.Rath, G.Kiran Kumar, S.K.Basu, A.Chakraborty, Krishichayan, S.Mukhopadhyay, N.S.Pattabiraman, S.S.Ghugre, A.K.Sinha - Phys.Rev. C 80, 054319 (2009)
Triaxial shape coexistence and new aligned band in ^{178}Os
- 2009KW02 A.A.Kwiatkowski, B.R.Barquest, G.Bollen, C.M.Campbell, D.L.Lincoln, D.J.Morrissey, G.K.Pang, A.M.Prinke, J.Savory, S.Schwarz, C.M.Folden III, D.Melconian, S.K.L.Sjue, M.Block - Phys.Rev. C 80, 051302 (2009)
Precision test of the isobaric multiplet mass equation for the $A=32$, $T=2$ quintet
- 2009LEZU D.Lebhertz, S.Courtin, F.Haas, M.-D.Salsac, C.Beck, A.Michalon, M.Rousseau, P.L.Marley, R.G.Glover, P.E.Kent, D.A.Hutcheon, C.Davis, J.E.Pearson - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.593 (2009); AIP Conf.Proc. 1090 (2009)
New decay branches of the radiative capture reaction $^{12}\text{C}(^{16}\text{O}, \gamma)^{28}\text{Si}$

REFERENCES

- 2009LI51 Z.H.Li, J.L.Lou, Y.L.Ye, H.Hua, D.X.Jiang, X.Q.Li, S.Q.Zhang, T.Zheng, Y.C.Ge, Z.Kong, L.H.Lv, C.Li, F.Lu, F.Y.Fan, Z.Y.Li, Z.X.Cao, L.Y.Ma, Q.Faisal, H.S.Xu, Z.G.Hu, M.Wang, X.G.Lei, L.M.Duan, Z.G.Xiao, W.L.Zhan, G.Q.Xiao, T.H.Huang, F.Fu, X.H.Zhang, C.Zheng, Y.H.Yu, X.L.Tu, Y.P.Zhang, Y.Y.Yang, H.B.Zhang, B.Thang, Y.L.Tian, Z.Ouang, M.R.Huang, Z.G.Xu, K.Yue, Q.Gao - Phys.Rev. C 80, 054315 (2009)
Experimental study of the β -delayed neutron decay of ^{21}N
- 2009L005 G.Lotay, P.J.Woods, D.Seweryniak, M.P.Carpenter, R.V.F.Janssens, S.Zhu - Phys.Rev. C 80, 055802 (2009), Erratum Phys.Rev. C 81, 029903 (2010)
 γ -ray spectroscopy study of states in ^{27}Si relevant for the $^{26}\text{Al}^m(p, \gamma)^{27}\text{Si}$ reaction in novae and supernovae
- 2009L006 R.Longland, C.Iliadis, G.Rusev, A.P.Tonchev, R.J.de Boer, J.Gorres, M.Wiescher - Phys.Rev. C 80, 055803 (2009)
Photoexcitation of astrophysically important states in ^{26}Mg
- 2009L0ZZ R.Lozeva, G.Simpson, G.Neyens, H.Grawe, D.Balabanski, for the g-RISING collaboration - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.164 (2009); AIP Conf.Proc. 1090 (2009)
Yrast Isomers In The Vicinity Of ^{132}Sn
- 2009MA68 A.Matic, A.M.van den Berg, M.N.Harakeh, H.J.Wortche, G.P.A.Berg, M.Couder, J.L.Fisker, J.Gorres, P.LeBlanc, S.O'Brien, M.Wiescher, K.Fujita, K.Hatanaka, Y.Sakemi, Y.Shimizu, Y.Tameshige, A.Tamii, M.Yosoi, T.Adachi, Y.Fujita, Y.Shimbara, H.Fujita, T.Wakasa, P.O.Hess, B.A.Brown, H.Schatz - Phys.Rev. C 80, 055804 (2009)
High-precision (p, t) reaction measurement to determine $^{18}\text{Ne}(\alpha, p)^{21}\text{Na}$ reaction rates
- 2009MA70 H.Makii, Y.Nagai, T.Shima, M.Segawa, K.Mishima, H.Ueda, M.Igashira, T.Ohsaki - Phys.Rev. C 80, 065802 (2009)
E1 and E2 cross sections of the $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ reaction using pulsed α beams
- 2009MAZL H.Mach, A.-M.Baluyut, D.Smith, E.Ruchowska, U.Koster, L.M.Fraile, H.Penttila, J.Aysto, R.Boutami, H.Bradley, N.Braun, V.-V.Elomaa, T.Eronen, C.Fransen, D.G.Ghita, J.Hakala, M.Hauth, A.Jokinen, J.Jolie, P.Karvonen, T.Kessler, W.Kurcewicz, H.Lehmann, I.D.Moore, J.Nyberg, S.Rahaman, J.Rissanen, J.Ronkainen, P.Ronkanen, A.Saastamoinen, T.Sonoda, O.Steczkiewicz, V.Ugryumov, C.Weber - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.502 (2009); AIP Conf.Proc. 1090 (2009)
Selected properties of nuclei at the magic shell closures from the studies of E1, M1 and E2 transition rates
- 2009MEZW G.Meierhofer, L.Canella, P.Grabmayr, J.Jochum, J.Jolie, P.Kudejova, N.Warr - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.559 (2009); AIP Conf.Proc. 1090 (2009)

REFERENCES

- Prompt Gamma Rays in ^{77}Ge after Neutron Capture on ^{76}Ge
- 2009MEZX Zh.Mezentseva, E.Berthoumieux, A.Borella, P.Cennini, W.Furman, A.Goverdovski, F.Gunsing, A.Mengoni, P.Schillebeeckx, R.Wynants, for the n_TOF Collaboration - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.381 (2009); AIP Conf.Proc. 1090 (2009)
R-matrix analysis of the $^{236}\text{U}(n, \gamma)$ reaction in the resolved resonance energy region
- 2009M037 A.Morgenstern, O.Lebeda, J.Stursa, R.Capote, M.Sin, F.Bruchertseifer, B.Zielinska, C.Apostolidis - Phys.Rev. C 80, 054612 (2009)
Cross sections of the reaction $^{231}\text{Pa}(d, 3n)^{230}\text{U}$ for the production of ^{230}U / ^{226}Th for targeted α therapy
- 2009M0ZW R.Moreh, R.C.Block, Y.Danon - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.102 (2009); AIP Conf.Proc. 1090 (2009)
Search For Anomalous n-p Scattering At 60 eV - 140 keV
- 2009MUZW D.Mucher, J.Iwanicki, J.Jolie, I.Stefanescu, J.Van de Walle, F.Becker, U.Bergmann, A.Blazhev, E.Bouchez, P.Butler, J.Cederkall, T.Czosnyka, T.Davinson, J.Eberth, T.Faestermann, S.Franchoo, C.Fransen, J.Gerl, R.Gernhauser, D.Habs, R.-D.Herzberg, M.Huyse, D.Jenkins, G.Jones, O.Kester, W.Korten, J.Kownacki, T.Kroll, R.Krucken, Z.Liu, S.Mandal, P.Napiorkowski, T.Nilsson, N.Pietralla, G.Rainovski, H.Scheit, A.Scherillo, D.Schwalm, T.Sieber, Ch.Theisen, P.Van Duppen, N.Warr, D.Weisshaar, F.Wenander, B.Wolf, P.Woods, M.Zielinska - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.587 (2009); AIP Conf.Proc. 1090 (2009)
Shell Structure and Shape Changes in Neutron Rich Krypton Isotopes
- 2009MUZX D.Muher, G.Gurdal, K.-H.Speidel, G.Kumbartzki, N.Benczer-Koller, J.Leske, J.Jolie, B.Krieger, Y.Y.Sharon, L.Zamick, V.Werner, E.Williams, R.J.Casperson, A.Heinz, R.Winkler, P.Maier-Komor - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.512 (2009); AIP Conf.Proc. 1090 (2009)
Proton Neutron Structure in even-A Zinc Nuclei
- 2009NA39 T.Nakamura, N.Kobayashi, Y.Kondo, Y.Satou, N.Aoi, H.Baba, S.Deguchi, N.Fukuda, J.Gibelin, N.Inabe, M.Ishihara, D.Kameda, Y.Kawada, T.Kubo, K.Kusaka, A.Mengoni, T.Motobayashi, T.Ohnishi, M.Ohtake, N.A.Orr, H.Otsu, T.Otsuka, A.Saito, H.Sakurai, S.Shimoura, T.Sumikama, H.Takeda, E.Takeshita, M.Takechi, S.Takeuchi, K.Tanaka, K.N.Tanaka, N.Tanaka, Y.Togano, Y.Utsuno, K.Yoneda, A.Yoshida, K.Yoshida - Phys.Rev.Lett. 103, 262501 (2009)
Halo Structure of the Island of Inversion Nucleus ^{31}Ne
- 2009NI13 N.Nica, J.C.Hardy, V.E.Iacob, J.Goodwin, C.Balonek, M.Hernberg, J.Nolan, M.B.Trzhaskovskaya - Phys.Rev. C 80, 064314 (2009)

REFERENCES

- Further test of internal-conversion theory with a measurement in ^{197}Pt
- 2009N012 G.Noguere, E.Rich, C.De Saint Jean, O.Litaize, P.Siegler, V.Avrigeanu - Nucl.Phys. A831, 106 (2009)
Average neutron parameters for hafnium
- 20090BZY S.O'Brien, T.Adachi, G.P.A.Berg, M.Couder, M.Dozone, H.Fujita, Y.Fujita, J.Gorres, K.Hatanaka, D.Ishikawa, T.Kubo, H.Matsubara, Y.Namiki, Y.Ohkuma, H.Okamura, H.J.Ong, D.Patel, Y.Sakemi, K.Sault, Y.Shimbara, S.Suzuki, T.Suzuki, A.Tamii, T.Wakasa, R.Wantanabe, M.Wiescher, R.Yamada, J.Zenihiro - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.288 (2009); AIP Conf.Proc. 1090 (2009)
Exploring the α -process with Grand Raiden
- 20090L09 J.Ollier, J.Simpson, X.Wang, M.A.Riley, A.Aguilar, C.Teal, E.S.Paul, P.J.Nolan, M.Petri, S.V.Rigby, J.Thomson, C.Unsworth, M.P.Carpenter, R.V.F.Janssens, F.G.Kondev, T.Lauritsen, S.Zhu, D.J.Hartley, I.G.Darby, I.Ragnarsson - Phys.Rev. C 80, 064322 (2009)
Ultrahigh-spin spectroscopy of $^{159,160}\text{Er}$: Observation of triaxial strongly deformed structures
- 20090SZZ M.Oshima, T.Kin, A.Kimura, K.Furutaka, Y.Toh, M.Koizumi - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.386 (2009); AIP Conf.Proc. 1090 (2009)
Multi-Step Cascades In ^{63}Ni
- 2009PA40 E.S.Paul, J.P.Revill, M.Mustafa, S.V.Rigby, A.J.Boston, C.Foin, J.Genevey, A.Gizon, J.Gizon, I.M.Hibbert, D.T.Joss, P.J.Nolan, B.M.Nyako, N.J.O'Brien, C.M.Parry, A.T.Semple, S.L.Shepherd, J.Timar, R.Wadsworth, L.Zolnai - Phys.Rev. C 80, 054312 (2009)
High-spin states in ^{127}Ce and ^{129}Ce : Further evidence for triaxial nuclear shapes
- 2009PEZY A.Petts, P.A.Butler, T.Grahn, A.Blazhev, N.Bree, B.Bruyneel, J.Cederkall, E.Clement, T.E.Cocolios, A.Dewald, J.Eberth, L.Fraile, C.Fransen, M.B.Gomez Hornillos, P.T.Greenlees, A.Gorgen, M.Guttormsen, K.Hadynska, K.Helariutta, R.-D.Herzberg, M.Huyse, D.G.Jenkins, J.Jolie, P.Jones, R.Julin, S.Juutinen, S.Ketelhut, S.Knapen, T.Kroll, R.Krucken, A.C.Larsen, M.Leino, J.Ljungvall, P.Maierbeck, P.L.Marley, B.Melon, P.J.Napiorkowski, M.Nyman, R.D.Page, J.Pakarinen, G.Pascovici, N.Patronis, P.J.Peura, E.Piselli, Th.Pissulla, P.Rahkila, P.Reiter, J.Saren, M.Scheck, C.Scholey, A.Semchenkov, S.Siem, I.Stefanescu, J.Sorri, J.Uusitalo, J.Van de Walle, P.Van Duppen, D.Voulot, R.Wadsworth, N.Warr, D.Weisshaar, F.Wenander, M.Zielinska - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.414 (2009); AIP Conf.Proc. 1090 (2009)
Lifetime Measurements and Coulomb Excitation of Light Hg Nuclei

REFERENCES

- 2009PHZY A.A.Phillips, P.E.Garrett, L.Bettermann, N.Braun, D.G.Burke, G.A.Demand, T.Faestermann, P.Finlay, K.L.Green, R.Hertenberger, R.Krucken, K.G.Leach, M.A.Schumaker, C.E.Svensson, H.-F.Wirth, J.Wong - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.342 (2009); AIP Conf.Proc. 1090 (2009)
Structure of the $K^\pi = 4^+$ bands in $^{186,188}\text{Os}$
- 2009PIZX N.Pietralla, A.Costin, J.Bonnet, J.Beller, A.Krugmann, O.Moller, H.Ai, R.F.Casten, A.Heinz, E.A.McCutchan, J.Qian, V.Werner, G.Rainovski, K.Dusling - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.524 (2009); AIP Conf.Proc. 1090 (2009)
Evidence for the Importance of Soft Deformation Potentials in Strongly Deformed Nuclei
- 2009RA33 R.Raabe, J.Buscher, J.Ponsaers, F.Aksouh, M.Huyse, O.Ivanov, S.R.Lesher, I.Mukha, D.Pauwels, M.Sawicka, D.Smirnov, I.Stefanescu, J.Van de Walle, P.Van Duppen, C.Angulo, J.Cabrera, N.de Sereville, I.Martel, A.M.Sanchez-Benitez, C.Aa.Diget - Phys.Rev. C 80, 054307 (2009)
Measurement of the branching ratio of the ^6He β -decay channel into the $\alpha+d$ continuum
- 2009RAZW A.Ramus - IPNO-T-09-07 (2009)
Etude des noyaux instables ^{19}O et ^{25}Ne par reaction de transfert a l aide du dispositif MUST2-TIARA-VAMOS-EXOGAM
- 2009RAZX D.Radeck, M.Albers, C.Bernards, L.Bettermann, A.Blazhev, C.Fransen, S.Heinze, J.Jolie, D.Mucher - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.597 (2009); AIP Conf.Proc. 1090 (2009)
Low-spin excitations in ^{100}Pd
- 2009RAZY G.Rainovski, N.Pietralla, T.Ahn, L.Coquard, C.J.Lister, R.V.F.Janssens, M.P.Carpenter, S.Zhu, L.Bettermann, W.Rother, J.Jolie - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.263 (2009); AIP Conf.Proc. 1090 (2009)
Off-yrast collectivity of the O(6) like nucleus ^{124}Xe
- 2009REZW P.H.Regan, N.Alkhomashi, N.Al-Dahan, Zs.Podolyak, E.B.Suckling, P.D.Stevenson, S.B.Pietri, S.J.Steer, A.B.Garnsworthy, W.Gelletly, J.Benlliure, A.I.Morales, J.Gerl, M.Gorska, H.J.Wollersheim, R.Kumar, J.Grebosz, A.Algora, G.Benzoni, P.Boutachkov, A.M.Bruce, E.Casarejos, I.J.Cullen, A.M.D.Bacelar, A.Blazhev, M.E.Estevez, G.Farrelly, Y.Fujita, R.Hoischen, S.Lalkovski, Z.Liu, I.Kojouharov, N.Kurz, C.Mihai, F.Molina, D.Mucher, B.Rubio, H.Schaffner, S.Tashenov, A.Tamii, J.J.Valiente Dobon, P.M.Walker, P.J.Woods - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.122 (2009); AIP Conf.Proc. 1090 (2009)

REFERENCES

New Insights into the Structure of Exotic Nuclei Using the RISING Active Stopper

- 2009RI12 R.Ringle, C.Bachelet, M.Block, G.Bollen, M.Facina, C.M.Folden, III, C.Guenaut, A.A.Kwiatkowski, D.J.Morrissey, G.K.Pang, A.M.Prinke, J.Savory, P.Schury, S.Schwarz, C.S.Sumithrarachchi - *Phys.Rev. C* 80, 064321 (2009)
High-precision Penning trap mass measurements of neutron-rich sulfur isotopes at the N=28 shell closure
- 2009RU13 A.T.Rudchik, Yu.M.Stepanenko, K.W.Kemper, A.A.Rudchik, O.A.Ponkratenko, E.I.Koshchy, S.Kliczewski, K.Rusek, A.Budzanowski, S.Yu.Mezhevych, Val.M.Pirnak, I.Skwirczynska, R.Siudak, B.Czech, A.Szczurek, V.V.Uleshchenko, J.Choinski, L.Glowacka - *Nucl.Phys. A* 831, 139 (2009)
 ^8Li optical potential from $^7\text{Li}(^{18}\text{O}, ^{17}\text{O})^8\text{Li}$ reaction analysis
- 2009RZ02 T.Rzaca-Urban, J.Genevey, T.Materna, W.Urban, A.G.Smith, J.A.Pinston, G.S.Simpson, M.P.Sadowski, U.Koster, H.Faust, A.Bail, L.Mathieu, O.Serot, F.Michel-Sendis, I.Ahmad - *Phys.Rev. C* 80, 064317 (2009)
Near-yrast structure of ^{142}Cs and ^{144}Cs
- 2009SA49 M.Sandzelius, B.Cederwall, E.Ganioglu, J.Thomson, K.Andgren, L.Bianco, T.Back, S.Eeckhaudt, S.Erturk, M.B.Gomez Hornillos, T.Grahn, P.T.Greenlees, B.Hadinia, A.Johnson, P.M.Jones, D.T.Joss, R.Julin, S.Juutinen, S.Ketelhut, A.Khaplanov, M.Leino, M.Nyman, R.D.Page, P.Rahkila, J.Saren, C.Scholey, J.Simpson, J.Sorri, J.Uusitalo, R.Wyss - *Phys.Rev. C* 80, 054316 (2009)
 γ -ray spectroscopy of ^{163}Ta
- 2009SAZW D.Savran, J.Endres, M.Fritzsche, J.Hasper, S.Muller, N.Pietralla, V.Yu.Ponomarev, K.Sonnabend, A.Zilges - *Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008*, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.486 (2009); *AIP Conf.Proc.* 1090 (2009)
Systematics and fragmentation of low-lying electric dipole strength
- 2009SCZV A.Scheikh-Obeid, O.Burda, M.Chernykh, A.Krugmann, O.Moller, P.von Neumann-Cosel, N.Pietralla - *Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008*, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.607 (2009); *AIP Conf.Proc.* 1090 (2009)
Nature of Symmetric and Mixed-Symmetric 2^+ States in ^{92}Zr from Electron Scattering
- 2009SCZX C.Scholl, Y.Fujita, T.Adachi, H.Hashimoto, K.Hatanaka, H.Matsubara, K.Nakanishi, T.Ohta, Y.Sakemi, Y.Shimbara, Y.Shimizu, Y.Tameshige, A.Tamii, P.von Brentano, M.Yosoi, R.G.T.Zegers - *Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008*, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.544 (2009); *AIP Conf.Proc.* 1090 (2009)
High-Resolution B(GT) studies with (^3He , t) reactions

REFERENCES

- 2009SCZZ M.Scheck, S.Mukhopadhyay, B.Crider, S.N.Choudry, E.Elhami, E.E.Peters, M.T.McEllistrem, J.N.Orce, S.W.Yates - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.253 (2009); AIP Conf.Proc. 1090 (2009)
Low-lying Collective States in ^{136}Ba
- 2009SH42 A.Shrivastava, M.Caamano, M.Rejmund, A.Navin, F.Rejmund, K.-H.Schmidt, A.Lemasson, C.Schmitt, L.Gaudefroy, K.Sieja, L.Audouin, C.O.Bacri, G.Barreau, J.Benlliure, E.Casarejos, X.Derkx, B.Fernandez-Dominguez, C.Golabek, B.Jurado, T.Roger, J.Taieb - Phys.Rev. C 80, 051305 (2009)
Prompt γ -ray spectroscopy of isotopically identified fission fragments
- 2009SI34 P.P.Singh, A.Yadav, D.P.Singh, U.Gupta, M.K.Sharma, R.Kumar, D.Singh, R.P.Singh, S.Muralithar, M.A.Ansari, B.P.Singh, R.Prasad, R.K.Bhowmik - Phys.Rev. C 80, 064603 (2009)
Role of high θ values in the onset of incomplete fusion
- 2009SI36 H.Singh, B.R.Behera, G.Singh, I.M.Govil, K.S.Golda, A.Jhingan, R.P.Singh, P.Sugathan, M.B.Chatterjee, S.K.Datta, S.Pal, Ranjeet, S.Mandal, P.D.Shidling, G.Viesti - Phys.Rev. C 80, 064615 (2009)
Measurement of neutron multiplicity from fission of ^{228}U and nuclear dissipation
- 2009SIZY S.Siem, U.Agvaanluvsan, A.Burger, M.Guttormsen, A.C.Larsen, G.Mitchell, H.T.Nyhus, R.Chankova, J.Rekstad, A.Schiller, N.U.H.Syed, H.K.Toft, G.M.Tveten, A.Voinov - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie; A.Zilges, N.Warr, A.Blazhev, Eds., p.66 (2009); AIP Conf.Proc. 1090 (2009)
Level densities and radiative strength functions
- 2009ST27 E.Stephan, St.Kistryn, A.Biegun, K.Bodek, I.Ciepal, A.Deltuva, E.Epelbaum, A.C.Fonseca, J.Golak, N.Kalantar-Nayestanaki, H.Kamada, M.Kis, B.Klos, A.Kozela, M.Mahjour-Shafiei, A.Micherdzinska, A.Nogga, R.Skibinski, R.Sworst, H.Witala, J.Zejma, W.Zipper - Eur.Phys.J. A 42, 13 (2009)
Precise set of tensor analyzing power T_{20} data for the deuteron-proton breakup at 130 MeV
- 2009STZZ D.Steppenbeck, A.N.Deacon, S.J.Freeman, R.V.F.Janssens, S.Zhu, M.P.Carpenter, P.Chowdhury, M.Honma, T.Lauritsen, C.J.Lister, D.Seweryniak, J.F.Smith, S.L.Tabor, B.J.Varley - Priv.Comm. (2009)
High-spin structures in the neutron-rich isotopes $^{57-60}\text{Mn}$
- 2009SUZY A.M.Sukhovoj, V.A.Khitrov, V.M.Maslov - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.577 (2009); AIP Conf.Proc. 1090 (2009)
Estimation of ^{237}U Level Density and Radiative Strength Functions from the $((n\text{-bar}), \gamma)$ Reaction

REFERENCES

- 2009TA34 T.Tamae, Y.Sato, T.Yokokawa, Y.Asano, M.Kawabata, O.Konno, I.Nakagawa, I.Nishikawa, K.Hirota, H.Yamazaki, R.Kimura, H.Miyase, H.Tsubota, C.Giusti, A.Meucci - Phys.Rev. C 80, 064601 (2009)
Comparison of the $^{12}\text{C}(e, e'p)$ cross section at low momentum transfer with a relativistic calculation
- 2009UE01 H.Ueno, T.Kawamura, T.Suzuki, H.Taneichi, T.Saito, T.Nakagawa, K.Kino, T.Nakagawa, Y.Matsuura, M.Higuchi - Phys.Rev. C 80, 064609 (2009)
Neutron decay from the giant resonance via the $^{10}\text{B}(e, e'n)$ reaction
- 2009UT01 H.Utsunomiya, S.Goriely, M.Kamata, T.Kondo, O.Itoh, H.Akimune, T.Yamagata, H.Toyokawa, Y.-W.Lui, S.Hilaire, A.J.Koning - Phys.Rev. C 80, 055806 (2009)
 γ -ray strength function for $^{116,117}\text{Sn}$ with the pygmy dipole resonance balanced in the photoneutron and neutron capture channels
- 2009UTZX H.Utsunomiya, S.Goriely, M.Kamata, O.Itoh, H.Akimune, T.Yamagata, H.Toyokawa, S.Hilaire, A.J.Koning - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.637 (2009); AIP Conf.Proc. 1090 (2009)
Low-lying strength in Sn photoneutron reactions
- 2009VE12 V.A.Vesna, Yu.M.Gledenov, V.V.Nesvizhevsky, A.K.Petukhov, P.V.Sedyshev, T.Soldner, E.V.Shulgina - Nucl.Phys. A827, 425c (2009)
Measurement of the parity-violating asymmetry in the reactions of cold polarized neutrons and light nuclei ^6Li , ^{10}B
- 2009VI09 A.M.Vinodkumar, W.Loveland, P.H.Sprunger, L.Prisbrey, M.Trinczek, M.Dombsky, P.Machule, J.J.Kolata, A.Roberts - Phys.Rev. C 80, 054609 (2009)
Fusion of ^9Li with ^{208}Pb
- 2009VLZZ R.Vlastou, S.Galanopoulos, C.T.Papadopoulos, M.Kokkoris, M.Serris, A.Lagoyannis, P.Demetriou - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.627 (2009); AIP Conf.Proc. 1090 (2009)
Isomeric Cross-Section Study of Neutron-Induced Reactions on Ge
- 2009VOZY P.von Neumann-Cosel, T.Adachi, C.A.Bertulani, J.Carter, M.Dozone, H.Fujita, K.Fujita, Y.Fujita, H.Hashimoto, K.Hatanaka, M.Itoh, Y.Kalmykov, K.Kato, T.Kawabata, H.Matsubara, K.Nakanishi, R.Neveling, H.Okamura, I.Poltoratska, V.Yu.Ponomarev, A.Richter, B.Rubio, H.Sakaguchi, Y.Sakemi, Y.Sasamoto, Y.Shimbara, Y.Shimizu, F.D.Smit, Y.Tameshige, A.Tamii, J.Wambach, M.Yosoi, J.Zenihiro - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.404 (2009); AIP Conf.Proc. 1090 (2009)
Complete dipole response in ^{208}Pb from high-resolution polarized proton scattering at 0 degrees
- 2009WA22 F.Wauters, V.De Leebeeck, I.Kraev, M.Tandecki, E.Traykov, S.Van Gorp, N.Severijns, D.Zakoucky - Phys.Rev. C 80, 062501 (2009)

REFERENCES

β asymmetry parameter in the decay of ^{114}In

- 2009WAZW C.Wagemans, J.Wagemans, P.Geltenbort - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.84 (2009); AIP Conf.Proc. 1090 (2009)
Measurement of the ^{77}Se , ^{99}Ru , ^{101}Ru and $^{123}\text{Te}(n, \alpha)$ Cross Sections with Thermal Neutrons
- 2009WI18 E.Williams, R.J.Casperson, V.Werner, H.Ai, P.Boutachkov, M.Chamberlain, G.Gurdal, A.Heinz, E.A.McCutchan, J.Qian, R.Winkler - Phys.Rev. C 80, 054309 (2009)
Candidates for low-lying mixed-symmetry states in ^{140}Nd
- 2009WIZU K.Wimmer, R.Krucken, V.Bildstein, K.Eppinger, R.Gernhauser, D.Habs, Ch.Hinke, Th.Kroll, R.Lutter, H.-J.Maier, P.Maierbeck, Th.Morgan, O.Schaile, W.Schwerdtfeger, S.Schwertel, P.G.Thirolf - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.539 (2009); AIP Conf.Proc. 1090 (2009)
First identification of large electric monopole strength in well-deformed rare earth nuclei
- 2009WIZV E.Williams, R.J.Casperson, V.Werner, H.Ai, P.Boutachkov, M.Chamberlain, G.Gurdal, A.Heinz, E.A.McCutchan, J.Qian, R.Winkler - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.268 (2009); AIP Conf.Proc. 1090 (2009)
A search for low-lying mixed symmetry states in ^{140}Nd
- 2009YA21 R.B.Yadav, W.C.Ma, G.B.Hagemann, H.Amro, A.Bracco, M.P.Carpenter, J.Domscheit, S.Frattini, D.J.Hartley, B.Herskind, H.Hubel, R.V.F.Janssens, T.L.Khoo, F.G.Kondev, T.Lauritsen, C.J.Lister, B.Million, S.Odegard, L.L.Riedinger, K.A.Schmidt, S.Siem, G.Sletten, P.G.Varmette, J.N.Wilson, Y.C.Zhang - Phys.Rev. C 80, 064306 (2009)
High-spin proton alignments and coexisting coupling schemes in ^{168}Hf
- 2009YAZS C.Yalcin, R.T.Guray, N.Ozkan, S.Kutlu, Gy.Gyurky, J.Farkas, G.G.Kiss, Zs.Fulop, T.Rauscher, E.Somorjai - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.631 (2009); AIP Conf.Proc. 1090 (2009)
Astrophysical S-factor for α -Capture of ^{113}In in the p-Process Energy Range
- 2009YAZT S.W.Yates - Proc.13th Intern.Symposium on Capture Gamma-Ray Spectroscopy and Related Topics, Cologne, Germany, 25-29 Aug.2008, J.Jolie, A.Zilges, N.Warr, A.Blazhev, Eds., p.517 (2009); AIP Conf.Proc. 1090 (2009)
Probing Nuclear Structure with Fast Neutrons
- 2009Y009 D.H.Youngblood, Y.-W.Lui, X.F.Chen, H.L.Clark - Phys.Rev. C 80, 064318 (2009)
Isoscalar giant resonance strength in ^{24}Mg

REFERENCES

- 2009ZA09 M.Zadro, P.Figuera, A.Di Pietro, F.Amorini, M.Fisichella, O.Goryunov, M.Lattuada, C.Maiolino, A.Musumarra, V.Ostashko, M.Papa, M.G.Pellegriti, F.Rizzo, D.Santonocito, V.Scuderi, D.Torresi - Phys.Rev. C 80, 064610 (2009)
Elastic scattering of ^6Li on ^{64}Zn at near-barrier energies
- 2009ZH37 F.Zhou, L.Gao, X.Kong, J.Luo, K.Li, Y.Song, F.Zhang - Phys.Rev. C 80, 054615 (2009)
Cross section measurements via residual nuclear decays: Analysis methods
- 2010AB05 S.Abe, for the KamLAND Collaboration - Phys.Rev. C 81, 025807 (2010)
Production of radioactive isotopes through cosmic muon spallation in KamLAND
- 2010AC01 N.L.Achouri, J.C.Angelique, G.Ban, B.Bastin, B.Blank, S.Dean, P.Dendooven, J.Giovinazzo, S.Grevy, K.Jungmann, B.Laurent, E.Lienard, O.Naviliat-Cuncic, N.A.Orr, A.Rogachevskiy, M.Sohani, E.Traykov, H.Wilschut - J.Phys.(London) G37, 045103 (2010)
The β - γ decay of ^{21}Na
- 2010AD03 N.Adimi, R.Dominguez-Reyes, M.Alcorta, A.Bey, B.Blank, M.J.G.Borge, F.de Oliveira Santos, C.Dossat, H.O.U.Fynbo, J.Giovinazzo, H.H.Knudsen, M.Madurga, I.Matea, A.Perea, K.Summerer, O.Tengblad, J.C.Thomas - Phys.Rev. C 81, 024311 (2010)
Detailed β -decay study of ^{33}Ar
- 2010AN01 A.N.Andreyev, S.Antalic, D.Ackermann, T.E.Cocolios, V.F.Comas, J.Elseviens, S.Franchoo, S.Heinz, J.A.Heredia, F.P.Hessberger, S.Hofmann, M.Huyse, J.Khuyagbaatar, I.Kojouharov, B.Kindler, B.Lommel, R.Mann, R.D.Page, S.Rinta-Antila, P.J.Sapple, S.Saro, P.Van Duppen, M.Venhart, H.V.Watkins - J.Phys.(London) G37, 035102 (2010)
The new isotope ^{179}Pb and α -decay properties of $^{179}\text{Tl}^m$
- 2010AS01 A.Astier, P.Petkov, M.-G.Porquet, D.S.Delion, P.Schuck - Phys.Rev.Lett. 104, 042701 (2010)
Novel Manifestation of α -Clustering Structures: New " $\alpha + ^{208}\text{Pb}$ " States in ^{212}Po Revealed by Their Enhanced E1 Decays
- 2010BA02 R.A.Bark, J.F.Sharpey-Schafer, S.M.Maliage, T.E.Madiba, F.S.Komati, E.A.Lawrie, J.J.Lawrie, R.Lindsay, P.Maine, S.M.Mullins, S.H.T.Murray, N.J.Ncapayi, T.M.Ramashidza, F.D.Smit, P.Vymers - Phys.Rev.Lett. 104, 022501 (2010)
Nonzero Quadrupole Moments of Candidate Tetrahedral Bands
- 2010BE01 P.Bednarczyk, J.Grebosz, M.Kmiecik, A.Maj, W.Meczynski, S.Myalski, J.Styczen, C.Domingo-Pardo, P.Doornenbal, J.Gerl, M.Gorska, H.J.Wollersheim, J.Jolie, P.Reiter, A.Bracco, F.Camera - Acta Phys.Pol. B41, 505 (2010)
In-beam γ -ray Angular Distribution and Lifetime Measurements - Experience from Rising and Perspectives at FAIR
- 2010BE05 C.Bernards, S.Heinze, J.Jolie, M.Albers, C.Fransen, D.Radeck - Phys.Rev. C 81, 024312 (2010)

REFERENCES

- ^{196}Hg and the "magical quartet" of the extended $U_{\nu}(6 / 12) (X) U_{\pi}(6 / 4)$ supersymmetry
- 2010CAZZ L.Caballero Ontanaya - arXiv:1001.3279v1 [nucl-ex] (2010)
Double Octupole States in ^{146}Gd
- 2010CH01 M.H.Chowdhury, Md.S.Uddin, S.M.Hossain, Sk.A.Latif, M.A.Hafiz, M.A.Islam, A.K.M.Zakaria, S.M.Azharul Islam - Radiochim.Acta 98, 1 (2010)
Experimental cross section for the $^{139}\text{La}(n, \gamma)^{140}\text{La}$ reaction at 0.0536 eV
- 2010C001 T.E.Cocolios, A.N.Andreyev, B.Bastin, N.Bree, J.Buscher, J.Elseviere, J.Gentens, M.Huyse, Yu.Kudryavtsev, D.Pauwels, T.Sonoda, P.Van den Bergh, P.Van Duppen - Phys.Rev. C 81, 014314 (2010)
Magnetic dipole moments of $^{57,58,59}\text{Cu}$
- 2010C002 N.Colonna, and The n_TOF Collaboration - Appl.Radiat.Isot. 68, 643 (2010)
Neutron cross-sections for next generation reactors: New data from n_TOF
- 2010DA03 L.S.Danu, D.C.Biswas, A.Saxena, A.Shrivastava, A.Chatterjee, B.K.Nayak, R.G.Thomas, R.K.Choudhury, R.Palit, I.Mazumdar, P.Datta, S.Chattopadhyay, S.Pal, S.Bhattacharya, S.Muralithar, K.S.Golda, R.K.Bhowmik, J.J.Das, R.P.Singh, N.Madhavan, J.Gerl, S.K.Patra, L.Satpathy - Phys.Rev. C 81, 014311 (2010)
Fine structure dips in the fission fragment mass distribution for the $^{238}\text{U}(^{18}\text{O}, f)$ reaction
- 2010DA04 M.Dasgupta, D.J.Hinde, S.L.Sheehy, B.Bouriquet - Phys.Rev. C 81, 024608 (2010)
Suppression of fusion by breakup: Resolving the discrepancy between the reactions of ^9Be with ^{208}Pb and ^{209}Bi
- 2010DE01 N.A.Demekhina, G.S.Karapetyan - Phys.Atomic Nuclei 73, 24 (2010); Yad.Fiz. 73, 26 (2010)
Symmetric and asymmetric modes of ^{232}Th photofission at intermediate energies
- 2010DE04 A.Y.Deo, Zs.Podolyak, P.M.Walker, A.Algora, B.Rubio, J.Agramunt, L.M.Fraile, N.Al-Dahan, N.Alkhomashi, J.A.Brizz, E.Estevez, G.Farrelly, W.Gelletly, A.Herlert, U.Koster, A.Maira, S.Singla - Phys.Rev. C 81, 024322 (2010)
Structures of ^{201}Po and ^{205}Rn from EC / β^+ -decay studies
- 2010DI01 I.Dillmann, C.Domingo-Pardo, M.Heil, F.Kappeler, S.Walter, S.Dababneh, T.Rauscher, F.-K.Thielemann - Phys.Rev. C 81, 015801 (2010)
Stellar (n, γ) cross sections of p-process isotopes Part I: ^{102}Pd , ^{120}Te , $^{130,132}\text{Ba}$, and ^{156}Dy
- 2010DI02 M.S.Dias, V.Cardoso, M.F.Koskinas, I.M.Yamazaki - Appl.Radiat.Isot. 68, 592 (2010)
Determination of the neutron spectrum shape parameter α in k_0 NAA methodology using covariance analysis

REFERENCES

- 2010DR01 G.D.Dracoulis, F.G.Kondev, G.J.Lane, A.P.Byrne, M.P.Carpenter, R.V.F.Janssens, T.Lauritsen, C.J.Lister, D.Seweryniak, P.Chowdhury - Phys.Rev. C 81, 011301 (2010)
Connections between high-K and low-K states in the s-process nucleus ^{176}Lu
- 2010DZ01 N.Dzysiuk, I.Kadenko, A.J.Koning, R.Yermolenko - Phys.Rev. C 81, 014610 (2010)
Cross sections for fast-neutron interaction with Lu, Tb, and Ta isotopes
- 2010EI01 R.Eichler, N.V.Aksenov, Yu.V.Albin, A.V.Belozarov, G.A.Bozhikov, V.I.Chepigin, S.N.Dmitriev, R.Dressler, H.W.Gaggeler, V.A.Gorshkov, R.A.Henderson, A.M.Johnsen, J.M.Kenneally, V.Ya.Lebedev, O.N.Malyshov, K.J.Moody, Yu.Ts.Oganessian, O.V.Petrushkin, D.Piguet, A.G.Popeko, P.Rasmussen, A.Serov, D.A.Shaughnessy, S.V.Shishkin, A.V.Shutov, M.A.Stoyer, N.J.Stoyer, A.I.Svirikhin, E.E.Tereshatov, G.K.Vostokin, M.Wegrzecki, P.A.Wilk, D.Wittwer, A.V.Yeremin - Radiochim.Acta 98, 133 (2010)
Indication for a volatile element 114
- 2010ET01 S.Ettenauer, M.Brodeur, T.Brunner, A.T.Gallant, A.Lapierre, R.Ringle, M.R.Pearson, P.Delheij, J.Lassen, D.Lunney, J.Dilling - Phys.Rev. C 81, 024314 (2010)
Precision ground state mass of ^{12}Be and an isobaric multiplet mass equation (IMME) extrapolation for 2^+ and 0_2^+ states in the T=2, A=12 multiplet
- 2010EV01 M.Evers, D.J.Hinde, M.Dasgupta, D.H.Luong, R.Rafiei, R.du Rietz - Phys.Rev. C 81, 014602 (2010)
Coulomb nuclear interference as a tool to investigate the nuclear potential
- 2010FI01 J.M.Figueira, J.O.Fernandez Niello, A.Arazi, O.A.Capurro, P.Carnelli, L.Fimiani, G.V.Marti, D.Martinez Heimann, A.E.Negri, A.J.Pacheco, J.Lubian, D.S.Monteiro, P.R.S.Gomes - Phys.Rev. C 81, 024613 (2010)
Energy dependence of the optical potential of weakly and tightly bound nuclei as projectiles on a medium-mass target
- 2010GL01 Yu.A.Glukhov, A.A.Ogloblin, K.P.Artemov, V.P.Rudakov - Phys.Atomic Nuclei 73, 14 (2010); Yad.Fiz. 73, 16 (2010)
Nuclear rainbow in elastic scattering of ^9Be nuclei
- 2010HA02 P.J.Haigh, M.Freer, N.I.Ashwood, T.Bloxham, N.Curtis, H.G.Bohlen, T.Dorsch, Tz.Kokalova, C.Wheldon, W.N.Catford, N.P.Patterson, J.S.Thomas - J.Phys.(London) G37, 035103 (2010)
Alpha decay widths of excited states of ^{16}O
- 2010HA03 R.Hatarik, L.A.Bernstein, J.A.Cizewski, D.L.Bleuel, J.T.Burke, J.E.Escher, J.Gibelin, B.L.Goldblum, A.M.Hatarik, S.R.Lesher, P.D.O'Malley, L.Phair, E.Rodriguez-Vieitez, T.Swan, M.Wiedeking - Phys.Rev. C 81, 011602 (2010)
Benchmarking a surrogate reaction for neutron capture

REFERENCES

- 2010HA04 C.C.Hall, E.M.Lunderberg, P.A.DeYoung, T.Baumann, D.Bazin, G.Blanchon, A.Bonaccorso, B.A.Brown, J.Brown, G.Christian, D.H.Denby, J.Finck, N.Frank, A.Gade, J.Hinnefeld, C.R.Hoffman, B.Luther, S.Mosby, W.A.Peters, A.Spyrou, M.Thoennessen - Phys.Rev. C 81, 021302 (2010)
First observation of excited states in ^{12}Li
- 2010HU02 A.M.Hurst, C.Y.Wu, M.A.Stoyer, D.Cline, A.B.Hayes, S.Zhu, M.P.Carpenter, K.Abu Saleem, I.Ahmad, J.A.Becker, C.J.Chicara, J.P.Greene, R.V.F.Janssens, T.L.Khoo, F.G.Kondev, T.Lauritsen, C.J.Lister, G.Mukherjee, S.V.Rigby, D.Seweryniak, I.Stefanescu - Phys.Rev. C 81, 014312 (2010)
Rotational alignments in ^{235}Np and the possible role of $j_{15/2}$ neutrons
- 2010HY01 S.Hyldegaard, M.Alcorta, B.Bastin, M.J.G.Borge, R.Boutami, S.Brandenburg, J.Buscher, P.Dendooven, C.Aa.Diget, P.Van Duppen, T.Eronen, S.P.Fox, L.M.Fraile, B.R.Fulton, H.O.U.Fynbo, J.Huikari, M.Huyse, H.B.Jeppesen, A.S.Jokinen, B.Jonson, K.Jungmann, A.Kankainen, O.S.Kirsebom, M.Madurga, I.Moore, A.Nieminen, T.Nilsson, G.Nyman, G.J.G.Onderwater, H.Penttila, K.Perajarvi, R.Raabe, K.Riisager, S.Rinta-Antila, A.Rogachevskiy, A.Saastamoinen, M.Sohani, O.Tengblad, E.Traykov, Y.Wang, K.Wilhelmsen, H.W.Wilschut, J.Aysto - Phys.Rev. C 81, 024303 (2010)
R-matrix analysis of the β decays of ^{12}N and ^{12}B
- 2010I001 M.Ionescu-Bujor, A.Iordachescu, C.A.Ur, N.Marginean, G.Suliman, D.Bucurescu, F.Brandolini, F.Della Vedova, S.Chmel, S.M.Lenzi, R.Marginean, N.H.Medina, D.R.Napoli, P.Pavan, R.V.Ribas - Phys.Rev. C 81, 024323 (2010)
g factors of coexisting isomeric states in ^{188}Pb
- 2010JI02 S.-J.Jin, Y.-B.Wang, B.-X.Wang, X.-X.Bai, X.Fang, B.Guo, E.-T.Li, Y.-J.Li, Z.-H.Li, G.Lian, J.Su, s.-Q.Yan, S.Zeng, Z.-E.Yao, W.-P.Liu - Chin.Phys.Lett. 27, 032102 (2010)
Excited States in ^{18}Ne Studied via $^{17}\text{F}+p$
- 2010KA03 R.Kanungo, A.T.Gallant, M.Uchida, C.Andreoiu, R.A.E.Austin, D.Bandyopadhyay, G.C.Ball, J.A.Becker, A.J.Boston, H.C.Boston, B.A.Brown, L.Buchmann, S.J.Colosimo, R.M.Clark, D.Cline, D.S.Cross, H.Dare, B.Davids, T.E.Drake, M.Djongolov, P.Finlay, N.Galinski, P.E.Garrett, A.B.Garnsworthy, K.L.Green, S.Grist, G.Hackman, L.J.Harkness, A.B.Hayes, D.Howell, A.M.Hurst, H.B.Jeppesen, K.G.Leach, A.O.Macchiavelli, D.Oxley, C.J.Pearson, B.Pietras, A.A.Phillips, S.V.Rigby, C.Ruiz, G.Ruprecht, F.Sarazin, M.A.Schumaker, A.C.Shotter, C.S.Sumitharachchi, C.E.Svensson, I.Tanihata, S.Triambak, C.Unsworth, S.J.Williams, P.Walden, J.Wong, C.Y.Wu - Phys.Lett. B 682, 391 (2010)
Structure of states in ^{12}Be via the $^{11}\text{Be}(d, p)$ reaction
- 2010KR01 Krishichayan, X.Chen, Y.-W.Lui, Y.Tokimoto, J.Button, D.H.Youngblood - Phys.Rev. C 81, 014603 (2010)
Elastic and inelastic scattering to low-lying states of ^{58}Ni and ^{90}Zr using 240-MeV ^6Li
- 2010KR02 A.Krasa, V.Wagner, M.Majerle, F.Krizek, A.Kugler, O.Svoboda, J.Adam, M.I.Krivopustov - Nucl.Instrum.Methods Phys.Res. A615, 70 (2010)

REFERENCES

- Neutron production in a Pb / U-setup irradiated with 0.7-2.5 GeV protons and deuterons
- 2010KU01 J.Kurpeta, J.Rissanen, V.-V.Elomaa, T.Eronen, J.Hakala, A.Jokinen, P.Karvonen, I.D.Moore, H.Penttila, A.Plochocki, S.Rahaman, S.Rinta-Antila, J.Ronkainen, A.Saastamoinen, T.Sonoda, J.Szerypo, W.Urban, Ch.Weber, J.Aysto - Acta Phys.Pol. B41, 469 (2010)
Progress in Trap Assisted β Decay Spectroscopy of ^{115}Ru
- 2010KU02 J.Kurcewicz, F.Bosch, H.Geissel, Yu.A.Litvinov, N.Winckler, K.Beckert, P.Beller, D.Boutin, C.Brandau, L.Chen, C.Dimopoulou, H.G.Essel, B.Fabian, T.Faestermann, A.Fragner, B.Franzke, E.Haettner, M.Hausmann, S.Hess, P.Kienle, R.Knobel, C.Kozhuharov, S.A.Litvinov, L.Maier, M.Mazzocco, F.Montes, A.Musumarra, C.Nociforo, F.Nolden, Z.Patyk, W.R.Plass, A.Prochazka, R.Redda, R.Reuschl, C.Scheidenberger, M.Steck, T.Stohlker, B.Sun, K.Takahashi, S.Torilov, M.Trassinelli, H.Weick, M.Winkler - Acta Phys.Pol. B41, 525 (2010)
Studies of Two-body β -Decays at the FRS-ESR Facility
- 2010KU07 R.Kumar, P.Doornenbal, A.Jhingan, R.K.Bhowmik, S.Muralithar, S.Appannababu, R.Garg, J.Gerl, M.Gorska, J.Kaur, I.Kojouharov, S.Mandal, S.Mukherjee, D.Siwal, A.Sharma, P.P.Singh, R.P.Singh, H.-J.Wollersheim - Phys.Rev. C 81, 024306 (2010)
Enhanced $O_{g.s}^+ \rightarrow 2_1^+$ E2 transition strength in ^{112}Sn
- 2010LE01 A.Letourneau, F.Marie, P.Mutti, I.Al Mahamid - Appl.Radiat.Isot. 68, 432 (2010)
Emission probabilities of γ -rays from ^{238}Np and their use for determination of the thermal neutron capture cross section of ^{237}Np
- 2010LE02 H.Y.Lee, J.P.Greene, C.L.Jiang, R.C.Pardo, K.E.Rehm, J.P.Schiffer, A.H.Wuosmaa, N.J.Goodman, J.C.Lighthall, S.T.Marley, K.Otsuki, N.Patel, M.Beard, M.Notani, X.D.Tang - Phys.Rev. C 81, 015802 (2010)
Experimental study of the $^{11,12}\text{B}(n, \gamma)$ reactions and their influence on r-process nucleosynthesis of light elements
- 2010LE03 J.Lee, M.B.Tsang, D.Bazin, D.Coupland, V.Henzl, D.Henzlova, M.Kilburn, W.G.Lynch, A.M.Rogers, A.Sanetullaev, A.Signoracci, Z.Y.Sun, M.Youngs, K.Y.Chae, R.J.Charity, H.K.Cheung, M.Famiano, S.Hudan, P.O'Malley, W.A.Peters, K.Schmitt, D.Shapira, L.G.Sobotka - Phys.Rev.Lett. 104, 112701 (2010)
Neutron-Proton Asymmetry Dependence of Spectroscopic Factors in Ar Isotopes
- 2010LI01 C.-B.Li, S.-H.Zhou, Z.-Y.Liu, Q.-Y.Meng, J.Zhou, X.-M.Li, Y.-Y.Fu, Q.-G.Wen, S.-Y.Hu - Chin.Phys.Lett. 27, 012301 (2010)
Search for Decay Rate Variation of ^7Be in Pt and Al
- 2010LI02 Yu.A.Litvinov, H.Geissel, R.Knobel, B.Sun, H.Xu - Acta Phys.Pol. B41, 511 (2010)
Direct Mass Measurements of Exotic Nuclei in Storage Rings
- 2010LI03 S.H.Liu, J.H.Hamilton, A.V.Ramayya, A.Covello, A.Gargano, N.Itaco, N.J.Stone, A.V.Daniel, J.K.Hwang, Y.X.Luo, J.O.Rasmussen, G.M.Ter-Akopian, S.J.Zhu, W.C.Ma - Phys.Rev. C 81, 014316 (2010)

REFERENCES

- g-factor and spin-parity assignments of excited states in the N=83 isotones ^{135}Te , ^{136}I , ^{137}Xe , and ^{138}Cs
- 2010LU01 J.Luo, R.Liu, L.Jiang, G.Sun, Z.Liu, F.Zhou - *Radiochim.Acta* 98, 127 (2010)
Cross section measurements of (n, 2n), (n, p) and (n, α) reactions on gadolinium isotopes in the neutron energy range of 13.5 to 14.8 MeV
- 2010LUZZ Y.X.Luo, S.J.Zhu, J.H.Hamilton, A.V.Ramayya, C.Goodin, K.J.Li, X.L.Che, J.K.Hwang, I.Y.Lee, Z.Jiang, G.M.Ter-Akopian, A.V.Daniel, M.A.Stoyer, R.Donangelo, S.Frauendorf, V.Dimitrov, J.-Y.Zhang, J.D.Cole, N.J.Stone, J.O.Rasmussen - *Priv.Com.* (2010)
Odd-parity bands of $^{108,110,112}\text{Ru}$
- 2010MA02 V.M.Mazur, Z.M.Bigane, D.M.Symochko - *J.Phys.(London)* G37, 035101 (2010)
Population of metastable states in Rb isotopes in the photoneutron reactions
- 2010MA03 A.Marinov, I.Rodushkin, D.Kolb, A.Pape, Y.Kashiv, R.Brandt, R.V.Gentry, H.W.Miller - *Int.J.Mod.Phys.* E19, 131 (2010)
Evidence for the possible existence of a long-lived superheavy nucleus with atomic mass number A = 292 and atomic number Z \approx 122 in natural Th
- 2010MA08 P.J.R.Mason, D.M.Cullen, C.Scholey, P.T.Greenlees, U.Jakobsson, P.M.Jones, R.Julin, S.Juutinen, S.Ketelhut, M.Leino, M.Nyman, P.Peura, A.Puurunen, P.Rahkila, P.Ruotsalainen, J.Sorri, J.Saren, J.Uusitalo, F.R.Xu - *Phys.Rev. C* 81, 024302 (2010)
Spectroscopy of ^{144}Ho using recoil-isomer tagging
- 2010MA10 M.Maiti, S.Lahiri - *Phys.Rev. C* 81, 024603 (2010)
New routes for production of proton-rich Tc isotopes
- 2010MA15 P.J.R.Mason, D.M.Cullen, C.Scholey, A.Dewald, O.Moller, H.Iwasaki, T.Pissulla, W.Rother, J.A.Dare, P.T.Greenlees, U.Jakobsson, P.M.Jones, R.Julin, S.Juutinen, S.Ketelhut, M.Leino, N.M.Lumley, B.Niclasen, M.Nyman, P.Peura, A.Puurunen, P.Rahkila, P.Ruotsalainen, J.Sorri, J.Saren, J.Uusitalo, F.R.Xu - *Phys.Lett. B* 683, 17 (2010)
Isomer-tagged differential-plunger measurements in proton-unbound ^{144}Ho
- 2010MC01 S.McDaniel, A.Gade, R.V.F.Janssens, D.Bazin, B.A.Brown, C.M.Campbell, M.P.Carpenter, J.M.Cook, A.N.Deacon, D.-C.Dinca, S.J.Freeman, T.Glasmacher, P.G.Hansen, B.P.Kay, P.F.Mantica, W.F.Mueller, J.R.Terry, J.A.Tostevin, S.Zhu - *Phys.Rev. C* 81, 024301 (2010)
Population of positive-parity states in ^{53}Sc through one-proton knockout
- 2010ME01 G.Meierhofer, P.Grabmayr, J.Jochum, P.Kudejova, L.Canella, J.Jolie - *Phys.Rev. C* 81, 027603 (2010)
Thermal neutron capture cross section of ^{74}Ge

REFERENCES

- 2010MI01 S.Mianowski, H.Czyrkowski, R.Dabrowski, W.Dominik, Z.Janas, K.Miernik, M.Pfutzner, A.S.Fomichev, M.S.Golovkov, L.V.Grigorenko, S.A.Krupko, S.I.Sidorchuk, R.S.Slepnev, S.V.Stepantsov, G.M.Ter-Akopian - Acta Phys.Pol. B41, 449 (2010)
Imaging the Decay of ^8He
- 2010M001 D.S.Moreira, M.F.Koskinas, I.M.Yamazaki, M.S.Dias - Appl.Radiat.Isot. 68, 596 (2010)
Determination of ^{51}Cr and ^{241}Am X-ray and gamma-ray emission probabilities per decay
- 2010NG01 V.D.Nguyen, D.K.Pham, T.T.Kim, Md.S.Rahman, K.-S.Kim, G.Kim, H.-S.Lee, M.-H.Cho, I.S.Ko, W.Namkung, T.-Ik.Ro - J.Radioanal.Nucl.Chem. 283, 683 (2010)
Isomeric yield ratios in the photoproduction of $^{52m,g}\text{Mn}$ from natural iron using 50-, 60-, 70-MeV, and 2.5-GeV bremsstrahlung
- 2010NY01 H.T.Nyhus, S.Siem, M.Guttormsen, A.C.Larsen, A.Burger, N.U.H.Syed, G.M.Tveten, A.Voinov - Phys.Rev. C 81, 024325 (2010)
Radiative strength functions in $^{163,164}\text{Dy}$
- 2010OD01 D.O'Donnell, R.Chapman, X.Liang, F.Azaiez, F.Haas, S.Beghini, B.R.Behera, M.Burns, E.Caurier, L.Corradi, D.Curien, A.N.Deacon, Z.S.Dombradi, E.Farnea, E.Fioretto, A.Gadea, A.Hodsdon, F.Ibrahim, A.Jungclaus, K.Keyes, A.Latina, N.Marginean, G.Montagnoli, D.R.Napoli, F.Nowacki, J.Ollier, A.Papenberg, G.Pollarolo, M.-D.Salsac, F.Scarlassara, J.F.Smith, K.M.Spoehr, M.Stanoiu, A.M.Stefanini, S.Szilner, M.Trotta, J.J.Valiente-Dobon, D.Verney, Z.M.Wang - Phys.Rev. C 81, 024318 (2010)
 γ -ray spectroscopy of $^{38}_{17}\text{Cl}$ using grazing reactions
- 2010PA02 S.Pascu, Gh.Cata-Danil, D.Bucurescu, N.Marginean, C.Muller, N.V.Zamfir, G.Graw, A.Gollwitzer, D.Hofer, B.D.Valnion - Phys.Rev. C 81, 014304 (2010)
Structure investigation with the (p, t) reaction on $^{132,134}\text{Ba}$ nuclei
- 2010RA02 M.S.Rahman, K.-S.Kim, M.Lee, G.Kim, Y.Oh, H.-S.Lee, M.-H.Cho, I.S.Ko, W.Namkung, V.D.Nguyen, D.K.Pham, T.T.Kim, T.-Ik.Ro - J.Radioanal.Nucl.Chem. 283, 519 (2010)
Measurement of isomeric-yield ratios for the $^{197}\text{Au}(\gamma, n)^{196m,g}\text{Au}$ reactions induced by bremsstrahlung
- 2010RA05 G.Rainovski, N.Pietralla, T.Ahn, L.Coquard, C.J.Lister, R.V.F.Janssens, M.P.Carpenter, S.Zhu, L.Bettermann, J.Jolie, W.Rother, R.V.Jolos, V.Werner - Phys.Lett. B 683, 11 (2010)
How close to the O(6) symmetry is the nucleus ^{124}Xe ?
- 2010RE01 J.J.Ressler, J.A.Caggiano, C.J.Francy, P.N.Peplowski, J.M.Allmond, C.W.Beausang, L.A.Bernstein, D.L.Bleuel, J.T.Burke, P.Fallon, A.A.Hecht, D.V.Jordan, S.R.Lesher, M.A.McMahan, T.S.Palmer, L.Phair, N.D.Scielzo, P.G.Swearingen, G.A.Warren, M.Wiedeking - Phys.Rev. C 81, 014301 (2010)
Fission fragment isomers populated via $^6\text{Li}+^{232}\text{Th}$

REFERENCES

- 2010R004 C.Romano, Y.Danon, R.Block, J.Thompson, E.Blain, E.Bond - Phys.Rev. C 81, 014607 (2010)
Fission fragment mass and energy distributions as a function of incident neutron energy measured in a lead slowing-down spectrometer
- 2010SC02 C.Scholey, K.Andgren, L.Bianco, B.Cederwall, I.G.Darby, S.Eeckhaudt, S.Erturk, M.B.Gomez Hornillos, T.Grahn, P.T.Greenlees, B.Hadinia, E.Ideguchi, P.Jones, D.T.Joss, R.Julin, S.Juutinen, S.Ketelhut, M.Leino, A.-P.Leppanen, P.Nieminen, M.Niikura, M.Nyman, D.O'Donnell, R.D.Page, J.Pakarinen, P.Rahkila, J.Saren, M.Sandzelius, J.Simpson, J.Sorri, J.Thomson, J.Uusitalo, M.Venhart - Phys.Rev. C 81, 014306 (2010)
Isomeric and ground-state properties of $^{171}_{78}\text{Pt}$, $^{167}_{76}\text{Os}$, and $^{74}_{163}\text{W}$
- 2010SC03 M.Scheck, T.Grahn, A.Petts, P.A.Butler, A.Dewald, L.P.Gaffney, M.B.Gomez Hornillos, A.Gorgen, P.T.Greenlees, K.Helariutta, J.Jolie, P.Jones, R.Julin, S.Juutinen, S.Ketelhut, T.Kroll, R.Krucken, M.Leino, J.Ljungvall, P.Maierbeck, B.Melon, M.Nyman, R.D.Page, J.Pakarinen, E.S.Paul, Th.Pissulla, P.Rahkila, J.Saren, C.Scholey, A.Semchenkov, J.Sorri, J.Uusitalo, R.Wadsworth, M.Zielinska - Phys.Rev. C 81, 014310 (2010)
Lifetimes of odd-spin yrast states in ^{182}Hg
- 2010SI02 F.Simonelli, K.Abbas, P.Chau Huu-tai, U.Holzwarth, I.Cydzik - Radiochim.Acta 98, 187 (2010)
Measurement of excitation functions for production of cerium radioisotopes by deuteron induced reactions on natural cerium for nanobioscience applications
- 2010SI03 G.S.Simpson, W.Urban, J.A.Pinston, J.C.Angelique, I.Deloncle, H.R.Faust, J.Genevey, U.Koster, T.Materna, R.Orlandi, A.Scherillo, A.G.Smith, J.F.Smith, T.Rzaca-Urban, I.Ahmad, J.P.Greene - Phys.Rev. C 81, 024313 (2010)
Near-yrast structure of N=93 neutron-rich lanthanide nuclei
- 2010SI04 D.Singh, R.Ali, M.Afzal Ansari, K.S.Babu, P.P.Singh, M.K.Sharma, B.P.Singh, R.K.Sinha, R.Kumar, S.Muralithar, R.P.Singh, R.K.Bhowmik - Phys.Rev. C 81, 027602 (2010)
Incomplete fusion dynamics by spin distribution measurements
- 2010SI06 L.Simard - Prog.Part.Nucl.Phys. 64, 270 (2010)
The NEMO-3 experiment and the SuperNEMO project
- 2010ST01 D.Steppenbeck, A.N.Deacon, S.J.Freeman, R.V.F.Janssens, S.Zhu, M.P.Carpenter, P.Chowdhury, M.Honma, T.Lauritsen, C.J.Lister, D.Seweryniak, J.F.Smith, S.L.Tabor, B.J.Varley - Phys.Rev. C 81, 014305 (2010)
High-spin structures in the neutron-rich isotopes $^{57-60}\text{Mn}$
- 2010SU03 C.S.Sumithrarachchi, D.J.Morrissey, A.D.Davies, D.A.Davies, M.Facina, E.Kwan, P.F.Mantica, M.Portillo, Y.Shimbara, J.Stoker, R.R.Weerasiri - Phys.Rev. C 81, 014302 (2010)
States in ^{22}O via β decay of ^{22}N

REFERENCES

- 2010TA03 F.Tarkanyi, A.Hermanne, S.Takacs, B.Kiraly, I.Spahn, A.V.Ignatyuk -
Appl.Radiat.Isot. 68, 250 (2010)
 Experimental study of the excitation functions of proton induced nuclear reactions on ^{167}Er for production of medically relevant ^{167}Tm
- 2010TA04 K.Tanaka, T.Yamaguchi, T.Suzuki, T.Ohtsubo, M.Fukuda, D.Nishimura, M.Takechi, K.Ogata, A.Ozawa, T.Izumikawa, T.Aiba, N.Aoi, H.Baba, Y.Hashizume, K.Inafuku, N.Iwasa, K.Kobayashi, M.Komuro, Y.Kondo, T.Kubo, M.Kurokawa, T.Matsuyama, S.Michimasa, T.Motobayashi, T.Nakabayashi, S.Nakajima, T.Nakamura, H.Sakurai, R.Shinoda, M.Shinohara, H.Suzuki, E.Takeshita, S.Takeuchi, Y.Togano, K.Yamada, T.Yasuno, M.Yoshitake - *Phys.Rev.Lett.* 104, 062701 (2010)
 Observation of a Large Reaction Cross Section in the Drip-Line Nucleus ^{22}C
- 2010TH01 J.Thomson, D.T.Joss, E.S.Paul, C.Scholey, J.Simpson, S.Erturk, L.Bianco, B.Cederwall, I.G.Darby, S.Eeckhaudt, M.B.Gomez Hornillos, T.Grahn, P.T.Greenlees, B.Hadinia, P.Jones, R.Julin, S.Juutinen, S.Ketelhut, M.Leino, M.Nyman, D.O'Donnell, R.D.Page, J.Pakarinen, P.Rahkila, N.Rowley, M.Sandzelius, P.J.Sapple, J.Saren, J.Sorri, J.Uusitalo - *Phys.Rev. C* 81, 014307 (2010)
 Competing quasiparticle configurations in ^{163}W
- 2010T001 A.P.Tonchev, S.L.Hammond, J.H.Kelley, E.Kwan, H.Lenske, G.Rusev, W.Tornow, N.Tsoneva - *Phys.Rev.Lett.* 104, 072501 (2010)
 Spectral Structure of the Pygmy Dipole Resonance
- 2010V001 A.Voinov, S.M.Grimes, C.R.Brune, M.Guttormsen, A.C.Larsen, T.N.Massey, A.Schiller, S.Siem - *Phys.Rev. C* 81, 024319 (2010)
 γ -strength functions in ^{60}Ni from two-step cascades following proton capture
- 2010WA01 L.-L.Wang, L.-H.Zhu, J.-B.Lu, X.-G.Wu, G.-S.Li, X.Hao, Y.Zheng, C.-Y.He, L.Wang, X.-Q.Li, Y.Liu, B.Pan, Y.-X.Zhao, Z.-Y.Li, H.-B.Ding - *Chin.Phys.Lett.* 27, 022101 (2010)
 Lifetimes of High Spin States in an Odd-Proton Nucleus ^{129}Cs
- 2010WA02 H.-L.Wang, L.-T.Song, W.-J.Zhao, Z.-X.Liu, Y.-H.Zhang, X.-H.Zhou, Y.-X.Guo, X.-G.Lei - *Chin.Phys.Lett.* 27, 022301 (2010)
 Observation of a Possible New Isomer in ^{175}Ir
- 2010WA03 T.Wang, M.Lee, G.Kim, Y.Oh, W.Namkung, T.-I.Ro, Y.-R.Kang, M.Igashira, T.Katabuchi - *Nucl.Instrum.Methods Phys.Res. B* 268, 440 (2010)
 Measurement of keV-neutron capture cross-sections and capture γ -ray spectra of ^{56}Fe and ^{57}Fe
- 2010WA05 S.Y.Wang, D.P.Sun, B.T.Duan, X.L.Ren, B.Qi, X.X.Zhu, F.Z.Lv, C.Liu, C.J.Xu, J.Meng, H.Hua, F.R.Xu, Z.Y.Li, S.Q.Zhang, Y.Shi, J.M.Yao, L.H.Zhu, X.G.Wu, G.S.Li, Y.Liu, X.Q.Li, Y.Zheng, L.L.Wang, L.Wang - *Phys.Rev. C* 81, 017301 (2010)
 Coexistence of collective and noncollective structures in ^{118}Sn

REFERENCES

- 2010WE01 G.J.Weisel, W.Tornow, B.J.Crowe III, A.S.Crowell, J.H.Esterline, C.R.Howell, J.H.Kelley, R.A.Macri, R.S.Pedroni, R.L.Walter, H.Witala - Phys.Rev. C 81, 024003 (2010)
Neutron-deuteron analyzing power data at 19.0 MeV
- 2010YA01 J.Yang, S.Zhang, Y.Ding, F.Shu, J.Zhang - Radiochim.Acta 98, 59 (2010)
A new value of ^{93}Zr half-life
- 2010ZH03 Y.-N.Zheng, D.-M.Zhou, D.-Q.Yuan, Y.zuo, P.fan, M.Mihara, K.Matsuta, M.Fukuda, T.Minamisono, T.Suzuki, Y.-J.Xu, J.-Z.Zhu, Z.-Q.Wang, H.-L.Luo, X.-Z.Zhang, S.-Y.Zhu - Chin.Phys.Lett. 27, 022102 (2010)
Nuclear Structure and Magnetic Moment of the Unstable ^{12}B - ^{12}N Mirror Pair
- 2010ZU02 K.Zuber - Prog.Part.Nucl.Phys. 64, 267 (2010)
The status of the COBRA double-beta-decay experiment