International Atomic Energy Agency

IAEA's Nuclear Data Program

D. Abriola

Nuclear Data Section
Department of Nuclear Sciences and Applications

USNDP Meeting, BNL, Nov. 2011

Nuclear Data Section

Organization Chart
(April 2011)

Section Office (and INDC Secretariat)

Section Head: **R.A. Forrest**
Nuclear Data Physicist
(21709/21710)

Deputy Section Head: **D. Abriola**
Nuclear Data Physicist
(21712/21711)

Section Secretary: **L. Vrapcenjak**
(21710)

Nuclear Data Services Unit	Nuclear Data Development Unit	Atomic & Molecular Data Unit
S. Simakov Unit Head (21717)	**D.H. Abriola** Unit Head (21712)	**B.J. Braams** Unit Head (21731)
V. Zerkin Software Engineer (21714)	**R. Capote Noy** Nuclear Physicist (21713)	**W.M. Costello** (IT Systems Analyst) (21724)
V. Semkova Nuclear Physicist (21727)	**M.A. Kellett** Nuclear Physicist/Programmer (21709)	**H.-K. Chung** Atomic Physicist (21729)
N. Otsuka Nuclear Data Physicist (21715)	**K. Nathani** Clerk (21711)	**Marco Verpelli** (from 23 May 2011) Systems Analyst/Programmer (21723)
J. Roberts Nuclear Data Services Assistant (21725)		**K. Sheikh** Database Assistant (21730)
A. Oechs Clerk (21716)		
		M. O'Connell (25%) **Applications Programmer** **(21722)**

IAEA Activities Relating to NSDD

- Coordinated Research Projects (CRPs)
- ENSDF evaluations / NSR compilations
- Financial support for ENSDF evaluators and horizontal evaluation/compilation activities
- Coordination of the NSDD network
- Workshops
- Dissemination

Nuclear Data Projects – Status, Nov 2011

Coordinated Research Projects

- 6 completed
- 6 active

Data Development Projects + additional tasks

- 10 active

Completed CRPs

No.	Short title	Duration	Participants (contracts)
1	Nuclear data for Th-U fuel cycle	2002–2007	11 (6)
2	RIPL-3	2003–2008	11 (5)
3	Nuclear data for the production of therapeutic radionuclides	2003–2007	8 (4)
4	Reference database for ion beam analysis	2005–2010	10 (4)
5	Reference database for neutron activation analysis	2005–2010	7 (4)
6	Updated decay data library for actinides	2005–2010	7 (4)

Databases » ENSDF | NuDat 2.5 | LiveChart | NSR | Nuclear Wallet Cards Related » ENSDF Manuals | Codes | Nuclear Data Sheets | EXFOR

Members
- Daniel Abriola
- Balraj Singh
- Daniel Cano
- Iris Dillmann
- Alejandro Sonzogni
- Bernd Pfeiffer
- José L. Tain

Advisers
- Mark A. Kellett
- Stanislav Simakov
- Valentina Semkova

Members and Advisers
- Mail to All

Links
- IAEA Nuclear Data Services
- IAEA Nuclear Data Section
- DDEP Homepage
- Meeting Homepage

IAEA Consultant's Meeting (CM) on Beta-Delayed Neutron emission evaluation

Scientific Secretary: Daniel Abriola

INFORMATION ON THIS WEB PAGE IS FOR EXCLUSIVE USE BY Beta-delayed neutron meeting PARTICIPANTS. THE DATA FROM THIS WEB PAGE SHOULD NOT BE QUOTED OR USED WITHOUT THE EXPLICIT CONSENT OF THE CONTRIBUTING AUTHOR.

Announcements

The IAEA Consultant's Meeting (CM) on Beta-Delayed Neutron emission evaluation was held at IAEA's Headquarters, Vienna, Austria, from 10-12 October 2011.

- Preliminary Agenda
- Presentations
- Summary Report (DRAFT)

Beta-Delayed Neutron emission evaluation

The main Goal of this meeting is to advise the IAEA-NDS whether to set up a CRP on Beta Delayed neutron emission.
To achieve that Goal, the consultants reviewed the current state of affairs regarding the available compilations and new data from recent measurements.
The consultants discussed possible ways to set up a dedicated database of evaluated data, and how to update the existing databases. It was recommended that the NDS starts preparations for this CRP.

ENSDF evaluations (D. Abriola)

- Collaboration with A. Sonzogni,
  A=72 published.
- As part of ENSDF-2009 - evaluation of ^{84}Nb
  A=84 published
- New Mass chain A=144 to be submitted 2011 in collaboration with A. Sonzogni
  (17 nuclei, 93 new experimental references,
  21 XUNDL-files)

NSR compilations (1)

Compilation began September 2005 when IAEA designated Mark Kellett as NSR keyword compiler

Three journals covered by the IAEA (~20-25% of NSR entries):
Nuclear Physics A
European Physical Journal A
Physics Letters B

IAEA/NNDC collaborative visits:

- **M.A. Kellett one week visit to NNDC, July 2005**
- **M.A. Kellett one week visit to NNDC, Dec. 2005**
- **D. Winchell one week visit to IAEA, June 2006**
- **M.A. Kellett one week visit to NNDC, Oct. 2006**
- **M. Bhattacharya one week visit to IAEA, Oct. 2007**
- **B. Pritychenko one week visits to IAEA, Nov. 2009, 2010,2011**

NSR compilations (2)

IAEA has compiled [and keyworded] the following papers:

2005: 258 [134] (from Sept to Dec)
2006: 479 [348]
2007: 869 [495]
2008: 529 [298]
2009: 670 [217]
2010: 596 [298]
2011: 259 [108] (partial effort to finalize work)

Total: 3660 [1898] (in ~5.5 years)

Since 2009, Mark has mentored Emil Betak (consultant compiler), initial training on files of selected NP/A papers (chosen from files previously keyworded) and later reviewing newly keyworded files. Significant time has been spent explaining and commenting in order to help train Emil.

5+2 Contracts – 2010…2011

1. Joshi and Jain (India)
2. Wang and Audi (China) Atomic Mass Evaluation (Horizontal)
3. Zuber (Poland)
4. A. Negret (Romania)

5. J. Timar – Z. Elekes (Hungary)

6. N. Stone (USA)
   Nuclear Moments (Horizontal):
   Compilation and evaluation

7. Lalkovski (Bulgaria)

Coordination of the NSDD network

International Network of Nuclear Structure and Decay Data at IAEA Headquarters, Vienna 4-8 April 2011.

Thirty-five participants from twenty countries attended the meeting, representing the majority of data evaluation centres, new evaluation groups and data dissemination centres, and making this the largest meeting in the history of the NSDD International Network of Evaluators

International Atomic Energy Agency

Nuclear Data Services

提供核数据组，原子能机构

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Search

Databases » ENSDF | NuDat 2.5 | LiveChart | NSR | Nuclear Wallet Cards **Related »** ENSDF Manuals | Codes | Nuclear Data Sheets | EXFOR

Members

Daniel Abriola
George Audi
Jean Blachot
Zoltan Elekes
Ameenah R. Farhan
Richard Firestone
Ashok K. Jain
Huo Junde
Jun-ichi Katakura
John H. Kelley
Tibor T. Kibedi
Filip G. Kondev
Stephan Lalkovski
Ivan A. Mitropolsky
Alexandru Negret
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Edgardo Browne-Moreno

mailto:kazimierz.zuber@ifj.edu.pl?subject=NSDD meeting

INTERNATIONAL NETWORK OF NUCLEAR STRUCTURE AND DECAY DATA EVALUATORS (NSDD)

Scientific Secretary: Daniel Abriola

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Announcements

The 19th Network meeting of the NSDD network was held in IAEA's Headquarters, Vienna, Austria, from 4-8 April 2011.

- Adopted Agenda
- Dinner info
- Meeting's Presentations
- List of Actions
- Web Tools for ENSDF evaluators
  Viktor Zerkin of IAEA's Nuclear Data Section developed a set of web tools. There is a site where evaluators can upload their data sets and run online: fmtchk, pandora, gtol and logft. Please check and comment.

Table of Contents

Workshops

2010

- **Nuclear Reaction Data for Advanced Reactor Technologies, ICTP, Trieste, 3 - 14 May 2010 (TALYS & EMPIRE)**
- **Experimental Nuclear Reaction Data Compilation of EXFOR Database, IAEA, Vienna, Austria, 30 Aug - 3 Sept 2010**
- **Nuclear Structure and Decay Data: Theory and Evaluation, ICTP, Trieste, 11 - 15 Oct 2010**

- **Nuclear Data for Science and Technology: Analytical Applications, ICTP, Trieste, 8 - 12 Nov 2010**

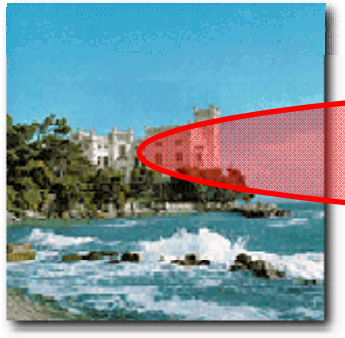
Workshops

2011

- **Workshop on Monte Carlo Radiation Transport and Associated Data needs for Medicap Applications, ICTP, Trieste, 17 - 28 Nov 2010 (HOSTED)**

Workshops

2012

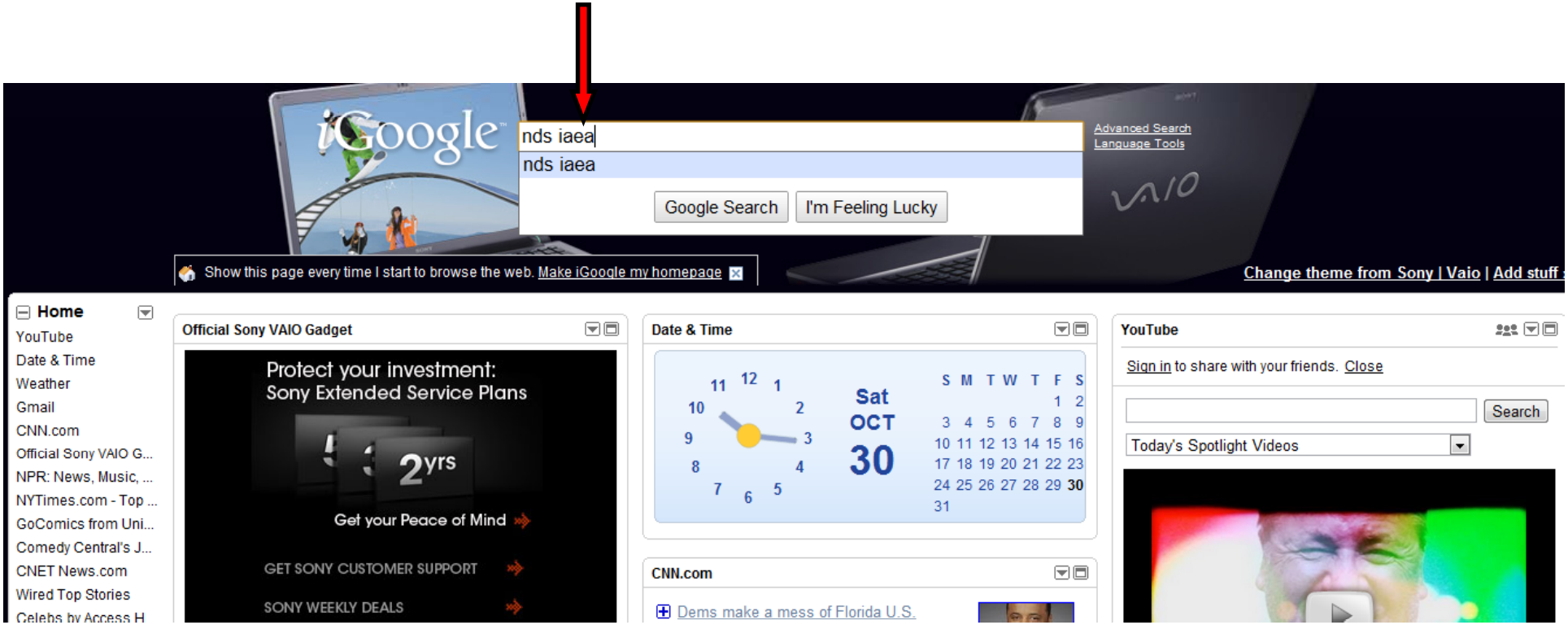


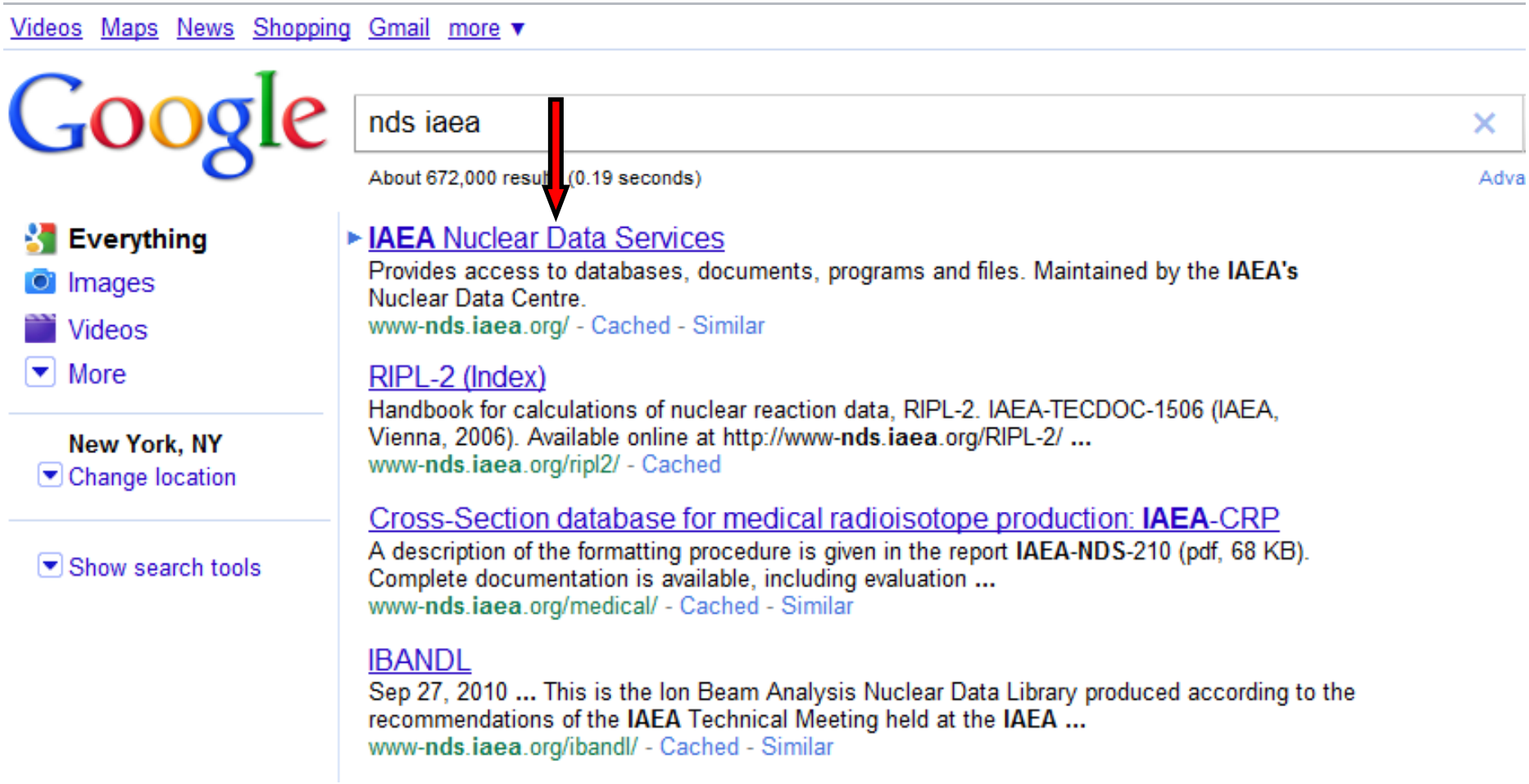
- **Joint IAEA-ICTP Nuclear Structure and Decay Data: Theory and Evaluation, ICTP, Trieste, 6 - 17 August 2012**

- **ENSDF Evaluator's Workshop Calcutta ?**

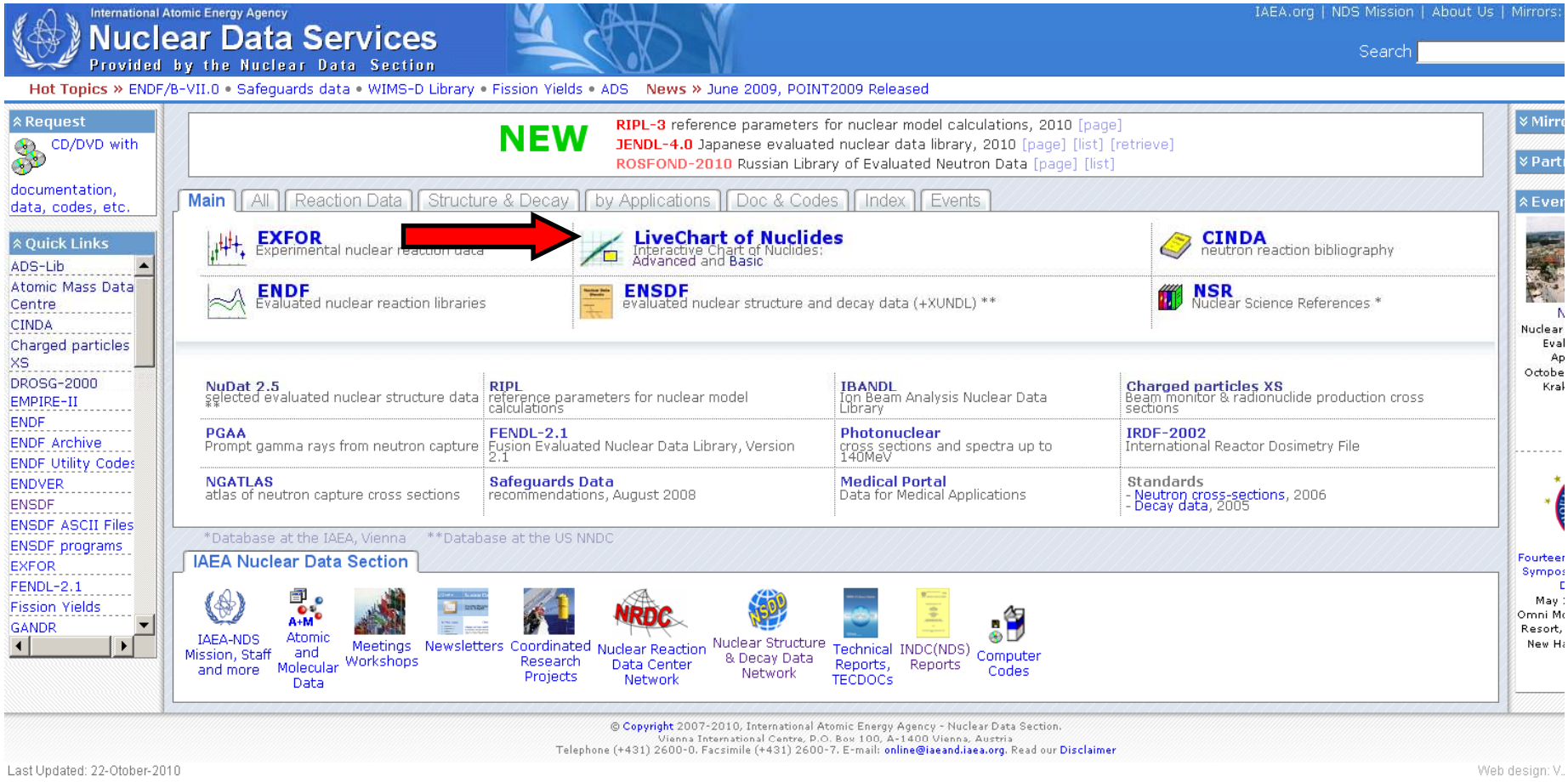
Dissemination

How to find us?

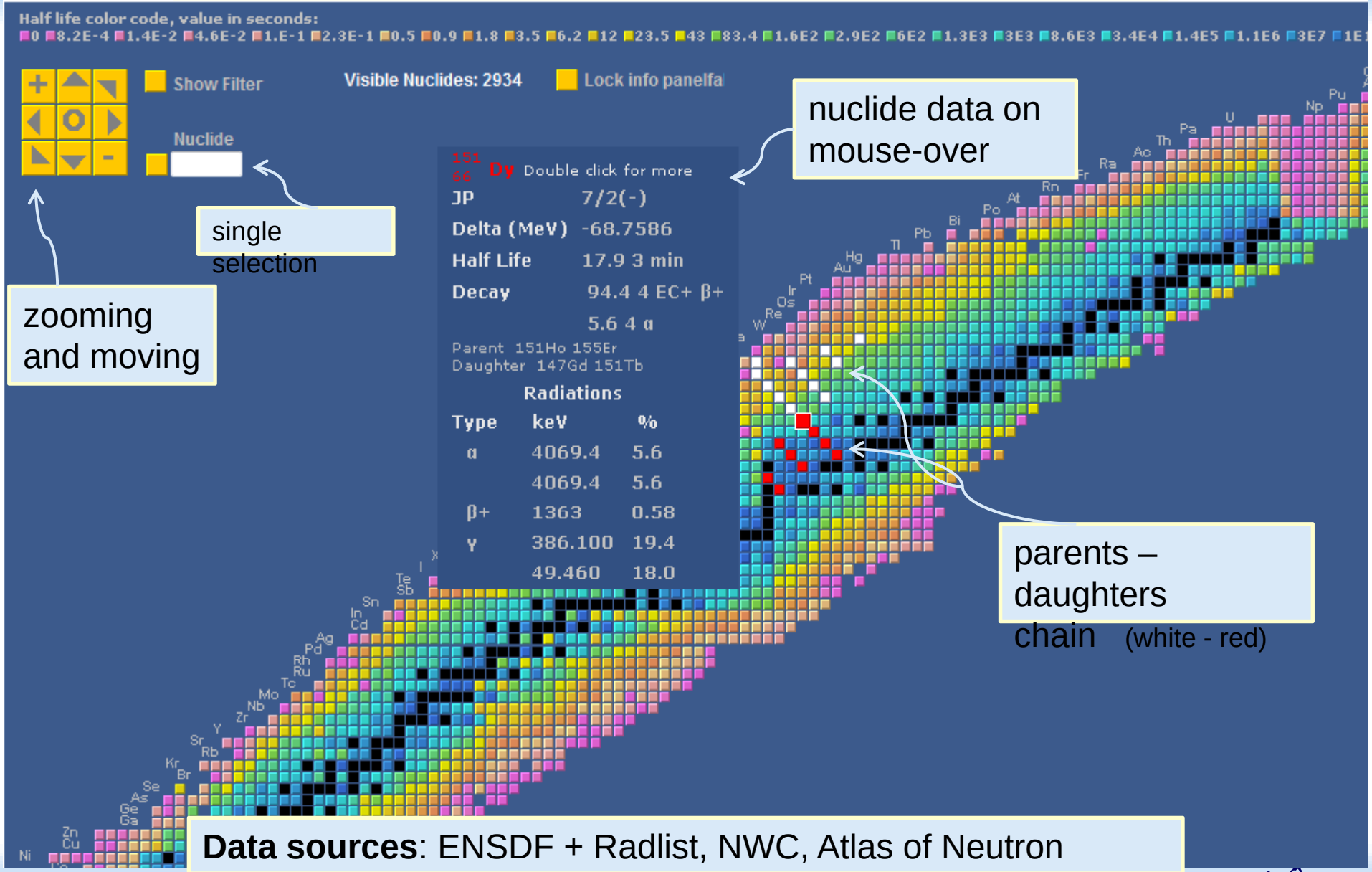



Videos Maps News Shopping Gmail more ▼
Google
nds iaea
About 672,000 result (0.19 seconds)
Adva
Everything
Images
Videos
More
New York, NY
Change location
Show search tools
IAEA Nuclear Data Services
Provides access to databases, documents, programs and files. Maintained by the IAEA's Nuclear Data Centre.
www-nds.iaea.org/ - Cached - Similar
RIPL-2 (Index)
Handbook for calculations of nuclear reaction data, RIPL-2. IAEA-TECDOC-1506 (IAEA, Vienna, 2006). Available online at http://www-nds.iaea.org/RIPL-2/ ...
www-nds.iaea.org/ripl2/ - Cached
Cross-Section database for medical radioisotope production: IAEA-CRP
A description of the formatting procedure is given in the report IAEA-NDS-210 (pdf, 68 KB). Complete documentation is available, including evaluation ...
www-nds.iaea.org/medical/ - Cached - Similar
IBANDL
Sep 27, 2010 ... This is the Ion Beam Analysis Nuclear Data Library produced according to the recommendations of the IAEA Technical Meeting held at the IAEA ...
www-nds.iaea.org/ibandl/ - Cached - Similar

NSDD activities in the IAEA



Livechart display



Data sources: ENSDF + Radlist, NWC, Atlas of Neutron Resonance

Single nuclide details

Main data of the nuclide:

Nuclide	Iπ	Mass excess (MeV)	Natural abundance or half life	Sn (keV)	Sp (keV)	Qβ (keV)	Qα (keV)	Decay modes mode branch
$^{174}_{71}$Lu	(1)-	-55.5753	3.31 y *5*	6761.1 *15*	5307.9 *16*	273.3 *22*	1800 *2*	ec 100% β+

more sources: Angeli and Stone

Major radiations E(keV)	intensity	σ (barn)	Nuclear Charge Radius *(fm)	μ ** (μN)	Q ** (barn)
γ 76.47	5.9%		5.3634 *303*	+1.94 *28* +1.988 *5* 1998Ge13 1.9 *3* 1975Kr11 Data for excited levels from 2011stZZ	+0.773 *5* 1998Ge13 Data for excited levels from 2011stZ
1241.85	5.14%				

Chain of Parents and Daughters: 174LU 174YB

Level schema of the nuclide: Open level schema

Level table of the nuclide:

Energy (keV)	Iπ	Half Life
0.0	(1)-	3.31 y *5*
44.6966 *20*	(2)-	
111.753 *3*	(3)-	
170.83 *5*	(6)-	142 d *2*
200.297 *5*	(4-)	
240.818 *4*	(3+)	395 ns *15*
259.534 *10*	(4+)	
281.168 *18*	(0+)	
302.45 *8*	(5+)	
311.205 *9*	(5-)	
320.111 *8*	(2+)	

Nuclear magnetic dipole and/or electric quadrupole moments

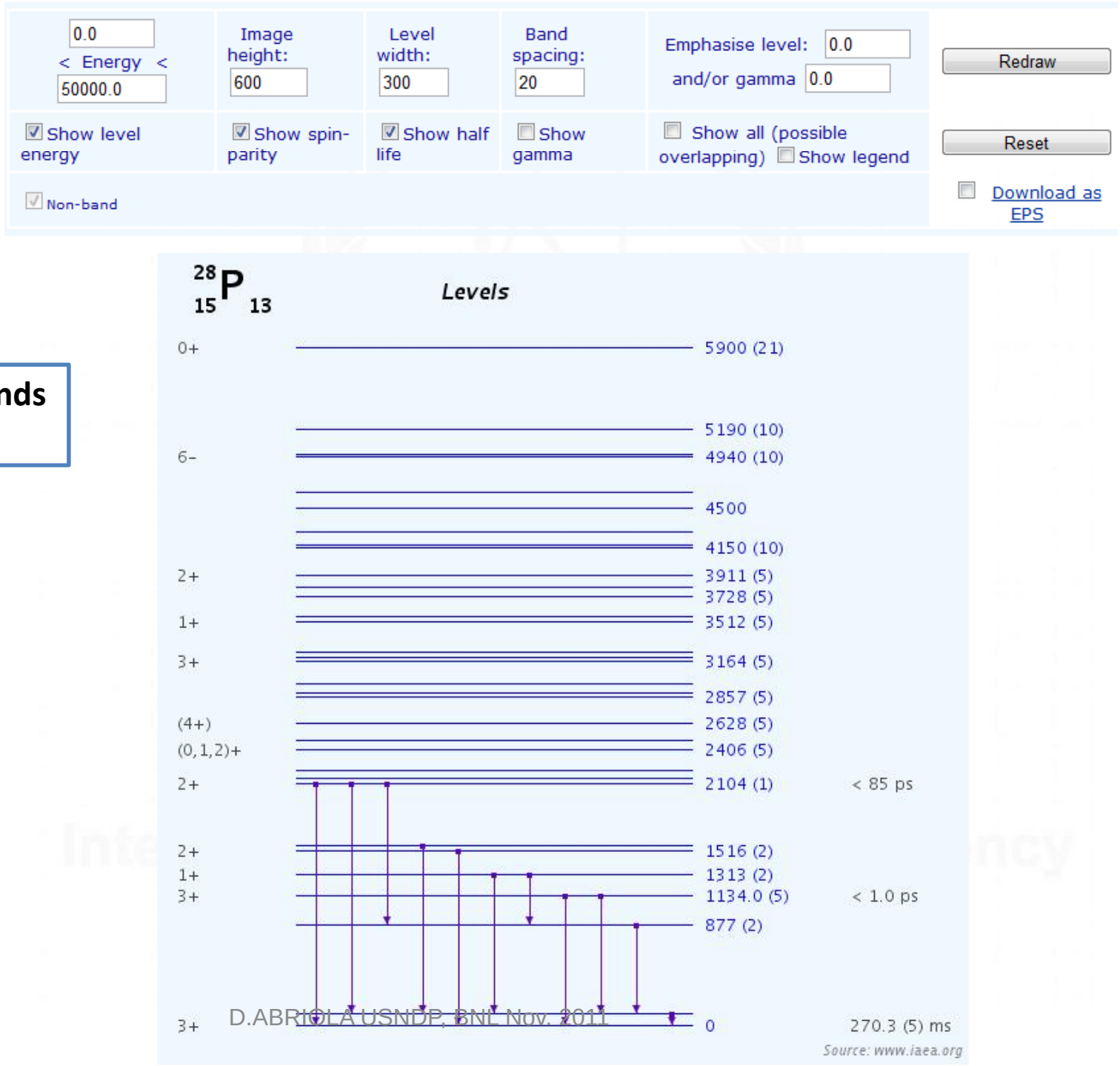
Magnetic dipole moments:

Nuclide	Energy (keV)	Half Life	Iπ	μ (nm)	Ref. Std.	Method	Reference
174LU	0	3.3 y	1-	+1.988 *5*	175Lu	CFBLS	1998Ge13
174LU	0	3.3 y	1-	1.9 *3*	173Lu	NO/S	1975Kr11
174LU	171	142 d	6-	+1.492 *16*	175Lu	CFBLS	1998Ge13
174LU	171	142 d	6-	1.497 *10*		NMR/ON	1991Hi19

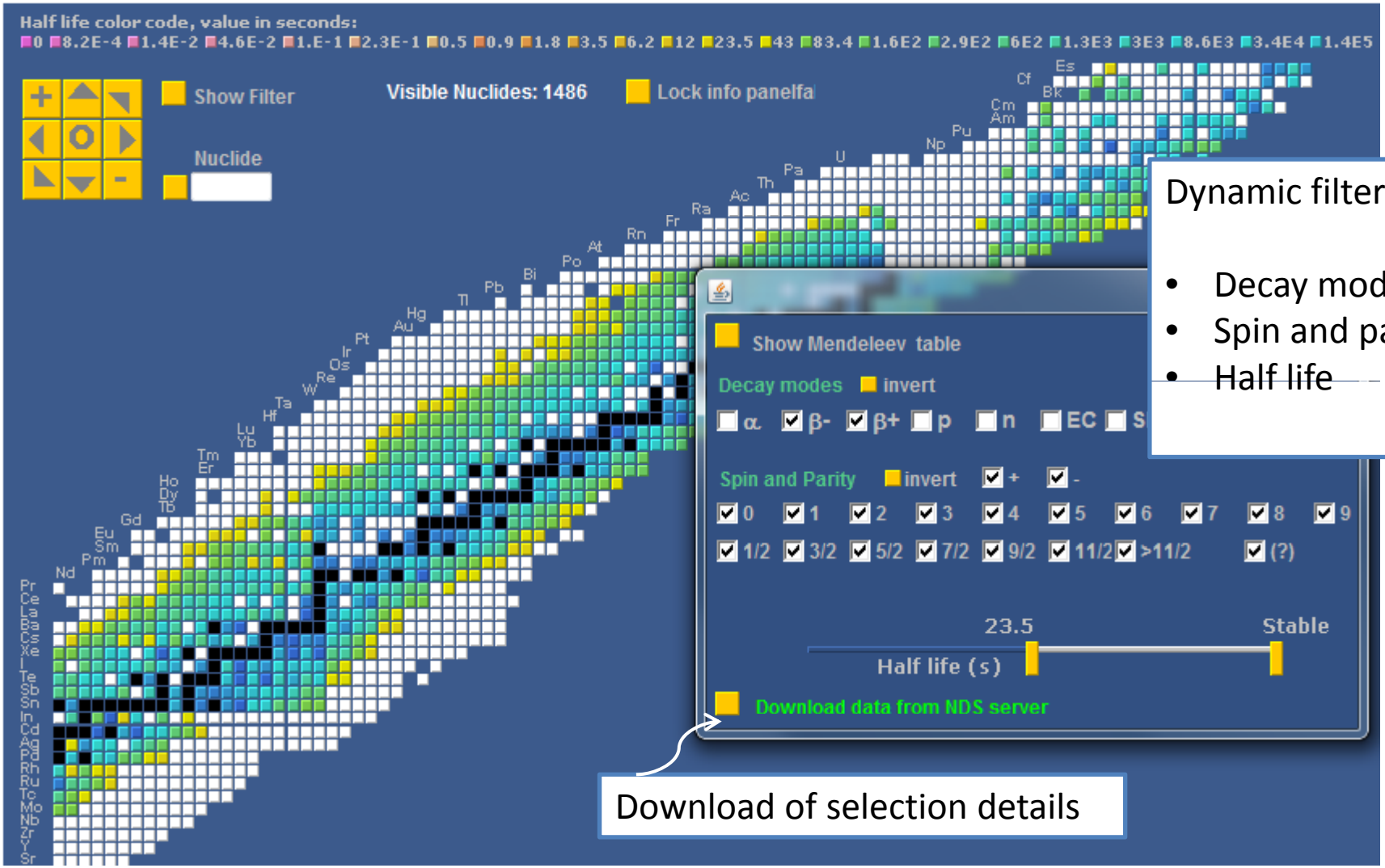
Electric quadrupole moments:

Nuclide	Energy (keV)	Half Life	Iπ	Q (b)	Ref. Std.	Method	Reference
174LU	0	3.3 y	1-	+0.773 *5*	175Lu	CFBLS	1998Ge13
174LU	171	142 d	6-	+4.80 *5*	175Lu	CFBLS	1998Ge13

Levels and Bands plotting



Filtering



Dynamic filter on:

- Decay modes
- Spin and parity
- Half life

Filtered nuclide details

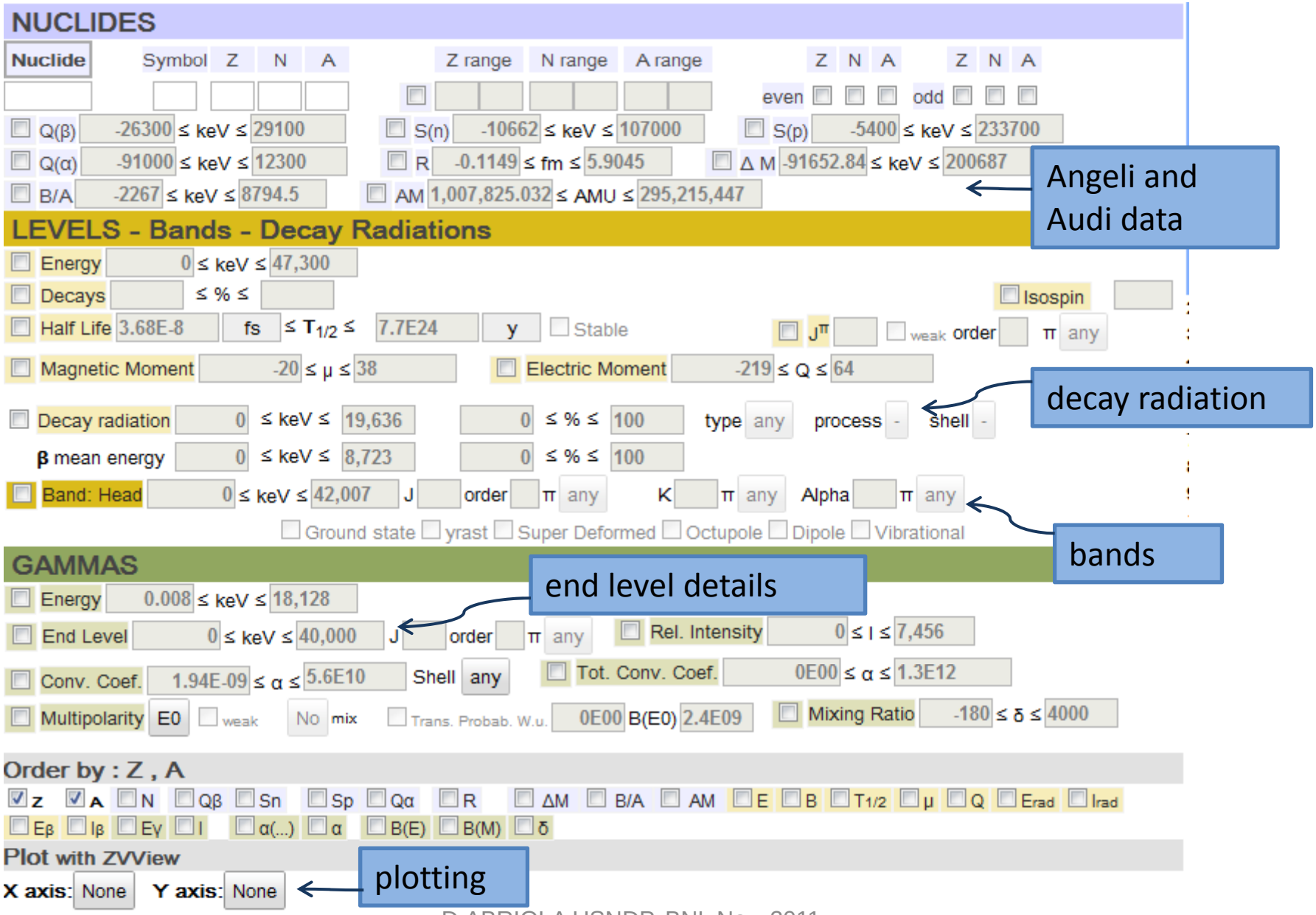
Nuclide	Iπ	Mass excess (MeV)	Natural abundance or half life	Decay modes		Major radiations		σ (barn)
				mode	branch	E(keV)	intensity	
21 Sc 38	(2-)	-4.9370 *syst*	< 300 ns	p	?%			
21 Sc 39	(7/2-)	-14.1680	< 300 ns	p	100%			
21 Sc 40	4-	-20.5232	182.3 ms *7*	ec α	0.017 5%	β^+ 5641	49%	
				ec p	0.44 7%	γ 3735.6	99.54%	
				ec β+	100%	755.6	41%	
21 Sc 41	7/2-	-28.6424	596.3 ms *17*	ec β+	100%	β^+ 5472.3	99.869%	
21 Sc 42	0+	-32.1212	681.3 ms *7*	ec β+	100%	β^+ 5402.95	99.8953%	
21 Sc 43	7/2-	-36.1879	3.891 h *12*	ec β+	100%	β^+ 1198.7	70.9%	
						γ 372.9	22.5%	
21 Sc 44	2+	-37.8161				β^+ 1474.1	94.27%	
						γ 1157.02	99.9%	
						1499.46	0.908%	
21 Sc 45	7/2-	-41.0678	**100 %**					σ_γ 17.4 *11* σ_γ^m 9.8 *11*

Click on a symbol to show its levels

Energy (keV)	J^n	Half Life
0.0	7/2-	STABLE
12.40 *5*	3/2+	318 ms *7*
376.50 *12*	3/2-	43.3 ps *23*
543.06 *14*	5/2+	5.5 ps *6*
720.12 *14*	5/2-	206 fs *16*
939.24 *15*	1/2+	7.3 ps +6-3
974.38 *15*	7/2+	2.54 ps *23*
3714.3 *8*	1/2,3/2,5/2	13 fs +14-10
3722.3 *10*		
3776 *13*	(+)	
3864.0 *15*		
3882 *11*	(1/2-)	
3890 *30*	+	
7696.3 *15*		
7711.0 *18*		
7712.5 *17*		
7714.9 *17*		
7725.0 *17*	3/2(-)	
7774.4 *17*	3/2(+)	
7929.3 *8*	25/2+	<0.07 ps

21 Sc 46	4+	-41.7571	83.788 d *22*	β-	100%	β^- 356.8	99.9964%	σ_γ 8.0 *10*
						γ 1120.54	99.9870%	
						889.28	99.9840%	

Query tool


NUCLIDES
Nuclide
Symbol Z N A
Z range N range A range
even odd
Q(β) -26300 ≤ keV ≤ 29100
S(n) -10662 ≤ keV ≤ 107000
S(p) -5400 ≤ keV ≤ 233700
Q(α) -91000 ≤ keV ≤ 12300
R -0.1149 ≤ fm ≤ 5.9045
Δ M -91652.84 ≤ keV ≤ 200687
B/A -2267 ≤ keV ≤ 8794.5
AM 1,007,825.032 ≤ AMU ≤ 295,215,447
Angeli and Audi data
LEVELS - Bands - Decay Radiations
Energy 0 ≤ keV ≤ 47,300
Decays ≤ % ≤
Isospin
Half Life 3.68E-8 fs ≤ T1/2 ≤ 7.7E24 y Stable
Jπ weak order π any
Magnetic Moment -20 ≤ μ ≤ 38
Electric Moment -219 ≤ Q ≤ 64
Decay radiation 0 ≤ keV ≤ 19,636 0 ≤ % ≤ 100 type any process - shell -
decay radiation
β mean energy 0 ≤ keV ≤ 8,723 0 ≤ % ≤ 100
Band: Head 0 ≤ keV ≤ 42,007 J order π any K π any Alpha π any
Ground state yrast Super Deformed Octupole Dipole Vibrational
bands
GAMMAS
Energy 0.008 ≤ keV ≤ 18,128
end level details
End Level 0 ≤ keV ≤ 40,000 J order π any
Rel. Intensity 0 ≤ I ≤ 7,456
Conv. Coef. 1.94E-09 ≤ α ≤ 5.6E10 Shell any
Tot. Conv. Coef. 0E00 ≤ α ≤ 1.3E12
Multipolarity E0 weak No mix Trans. Probab. W.u. 0E00 B(E0) 2.4E09
Mixing Ratio -180 ≤ δ ≤ 4000
Order by : Z , A
Z A N Qβ Sn Sp Qα R ΔM B/A AM E B T1/2 μ Q Erad Irad
Eβ Iβ Eγ I α(...) α B(E) B(M) δ
Plot with ZVView
X axis: None Y axis: None
plotting

Output panels

You requested: 238u

Nuclides | Levels | Gammas | Bands | Decay Radiation

Click on a nuclide symbol to show the schema

Nuclide	Q_{β^-}	S_n	S_p	Q_α	R	Mass Excess	Binding	Atomic Mass	J^π	$T_{1/2}$	Decays	Isospin	μ	Q	Additional data
$^{238}_{92}U_{146}$	-147.1 *11*	6153.7 *12*	7.62 x 10^3 *10*	4269.8 *29*	5.8569 *33*	47308.948 *1904*	7570.120 *8*	50788.247 *2044*	0+	4.468 x 10^9 y *3*	α 100 SF 5.45 x 10^{-5} *7*				comments

You requested: 238U

Nuclides | **Levels** | Gammas | Bands | Decay Radiation

Click on a nuclide symbol to show the schema

Nuclide	Energy (keV)	J^π_{order}	Band	$T_{1/2}$	$T_{1/2}$ [s]	Decays	Isospin	μ	Q	Additional Data
$^{238}_{92}U_{146}$	0.0	0+	1	4.468 x 10^9 y *3*	1.41 x 10^{17}	α 100 SF 5.45 x 10^{-5} *7*				comments
$^{238}_{92}U_{146}$	44.916 *13*	2+	1	206 ps *3*	2.06 x 10^{-10}			0.51 *3*		comments

You requested: 238U

Nuclides | Levels | **Gammas** | Bands | Decay Radiation

Click on a nuclide symbol to show the schema

Nuclide	Start Level E(keV)	Start Level J^π_{order}	Start Level $T_{1/2}$	End Level E(keV)	End Level J^π_{order}	E_γ (keV)	I_γ	Multip.	δ	Theor. Conv. Coef.	α	Electric Trans. W.u.	Magnetic Trans. W.u.	Additional Data
$^{238}_{92}U_{146}$	44.916 *13*	2+	206 ps *3*			44.915 *13*		E2		L *444* M *123*	609.0	281 *4*		comments
$^{238}_{92}U_{146}$	148.38 *3*	4+				103.50 *4*		[E2]		L 8.405 M 2.332 N+ 0.878	11.6			comments

Output panels

You requested: 238U

Nuclides | Levels | Gammas | **Bands** | Decay Radiation

Click on a nuclide symbol to show the schema

Nuclide	Band	K π	α π	Yrast	S.D.	Vibr.	Coll.	Dip.	Oct.	Comments
$^{238}_{92}U_{146}$	1	0+								Kπ=0+ GROUND-STATE BAND. Coulomb excitation. Member of ground-state rotational band based on γ-deexcitation pattern and energy fit to rotational formula.

Levels

E(keV)	J^{π}_{order}	$T_{1/2}$	Decays	μ	Q
0.0	0+	4.468 x 10^9 y *3*			
44.916 *13*	2+	206 ps *3*			
148.38 *3*	4+				

Gammas

E(keV)	I	Multip.	δ	Conv.Coef.	α	El. Trans. W.u.	Magn. Trans. W.u.
44.916 *13*		E2			609.0		
148.38 *3*		[E2]			11.6		

from Tom Burrows Radlst

You requested: 238U

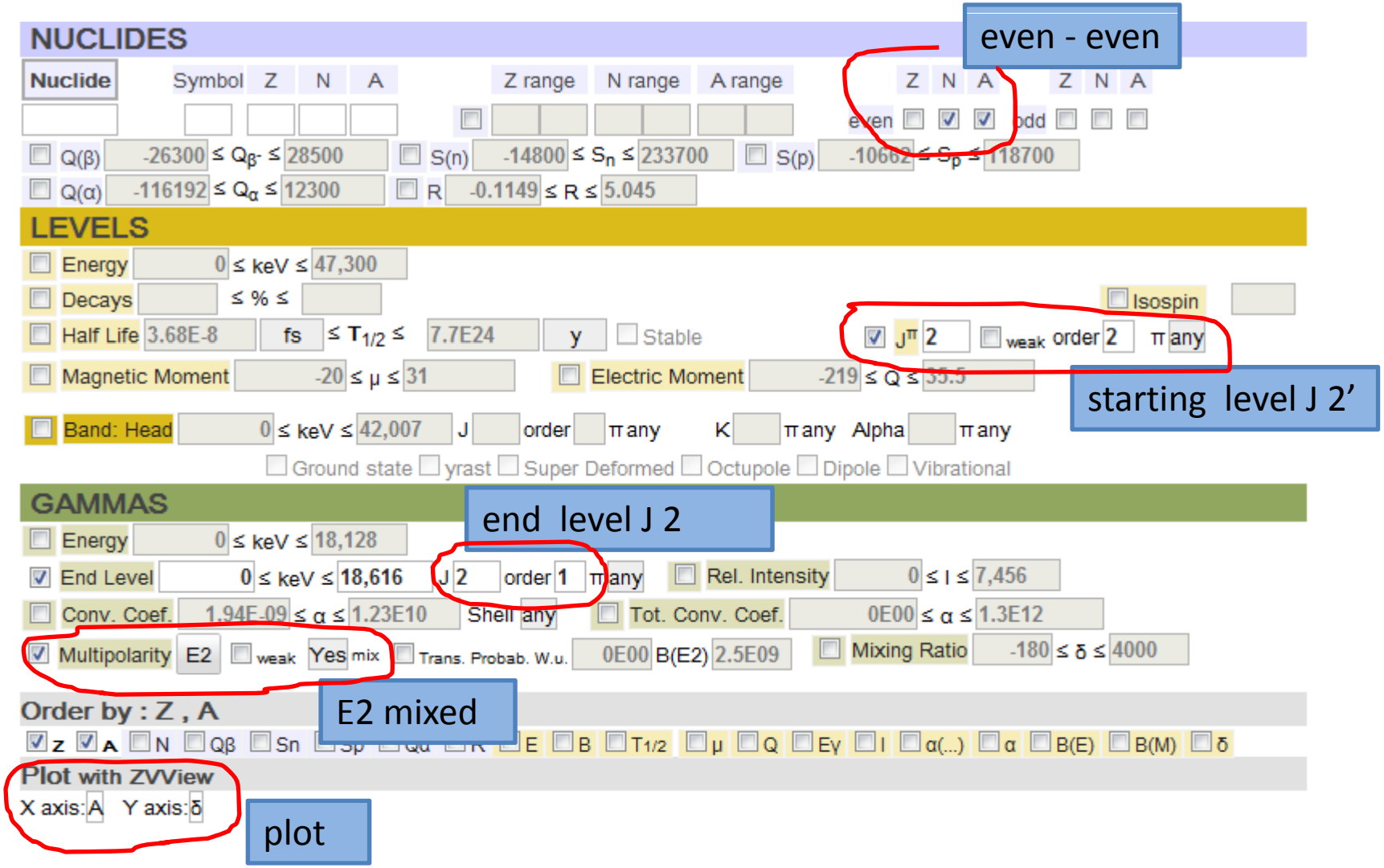
Nuclides | Levels | Gammas | Bands | **Decay Radiation**

Click on a nuclide symbol to show the schema

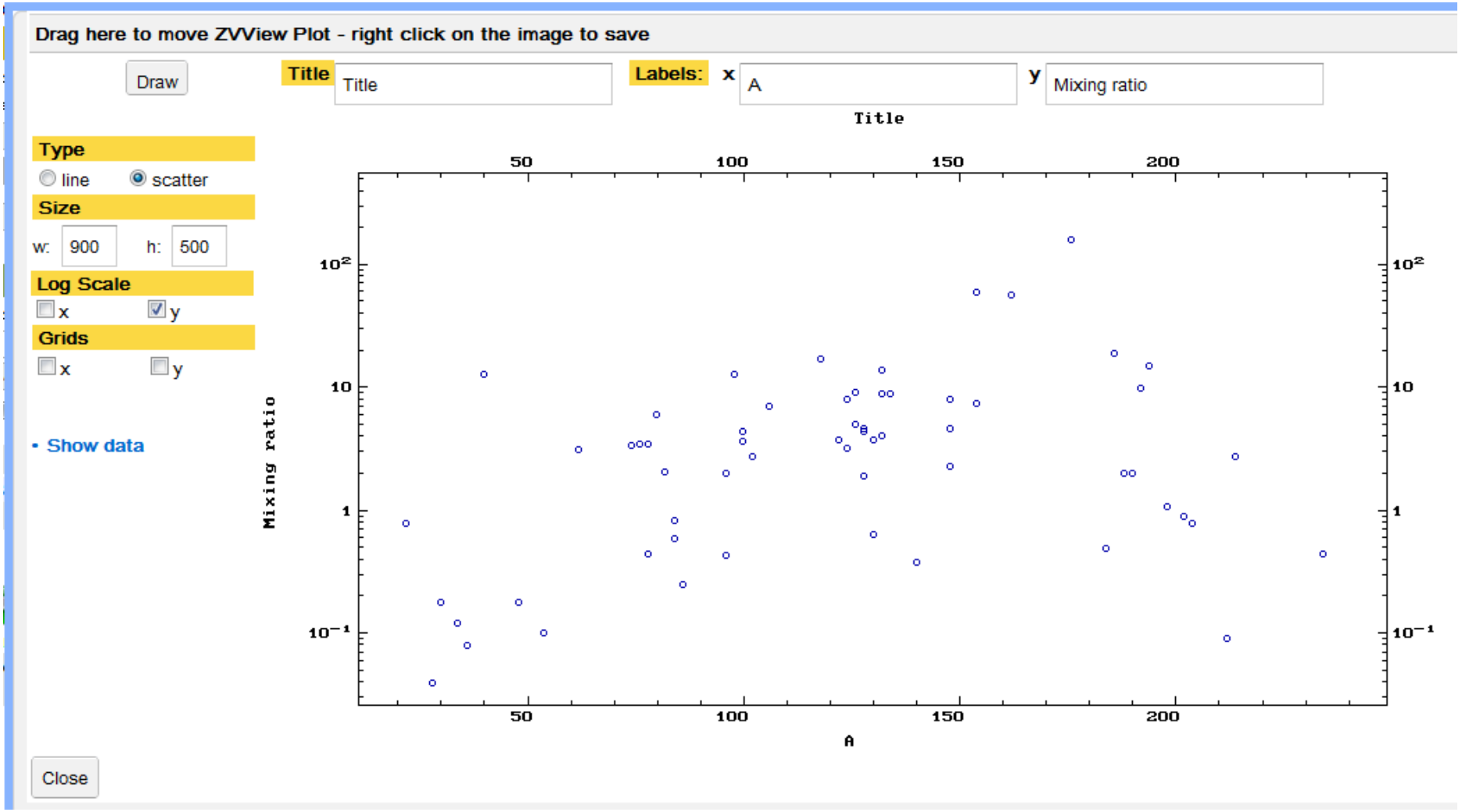
Parent	$T_{1/2}$	Jp order	Decay	Daughter
$^{238}_{92}U_{146}$	4.468 x 10^9 y *3*	0+	α 100 %	$^{234}_{90}Th_{144}$

Radiation	Energy [keV]	Intensity %	End point [keV]
A	4038 *5.*	0.078 *12*	
A	4151 *5.*	21 *3.*	
A	4198 *3.*	79 *3.*	
E CE K	3.85 *10*	0.002417	
E AU L	9.480	8.1 *11*	
E CE L	29.08 *6*	15.3 *20*	
E CE M	44.37 *6*	4.2 *6*	
E AU K	69.20	0 .	
E CE L	93.03 *10*	0.047 *8*	

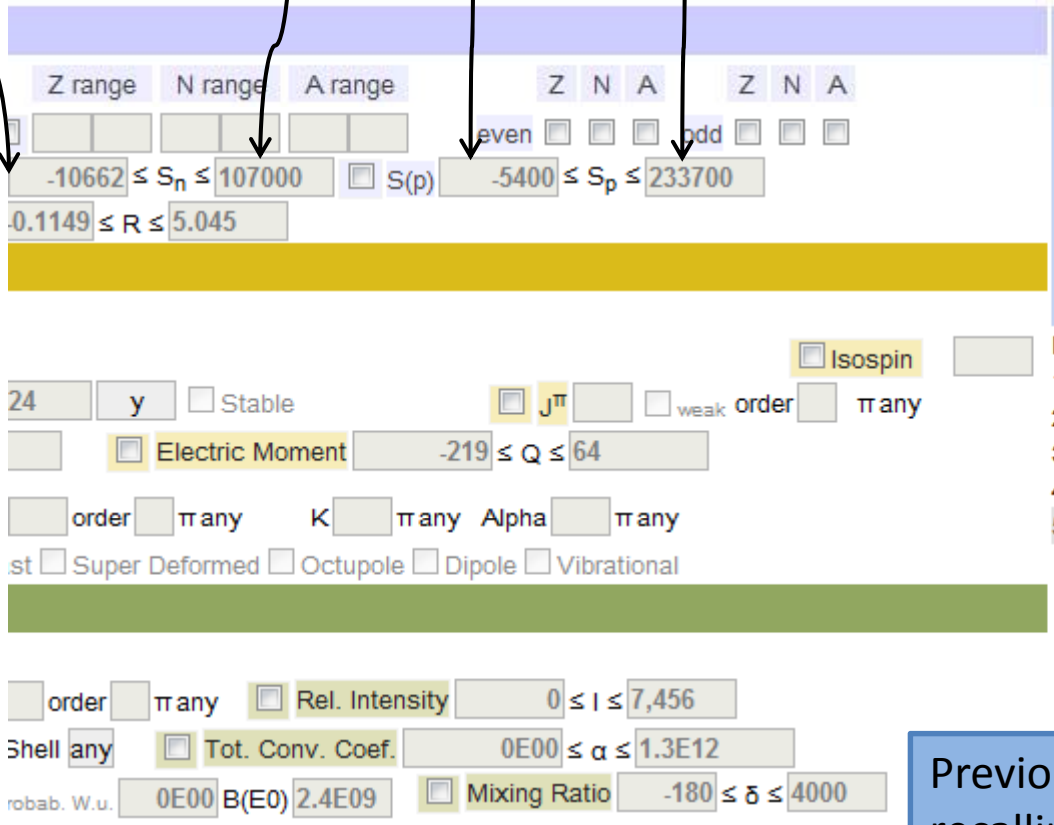
Plot mass number versus mixing of E2 mixed gamma transactions from a level J 2` to a level J 2 in even-even nuclides – use log on Y axis

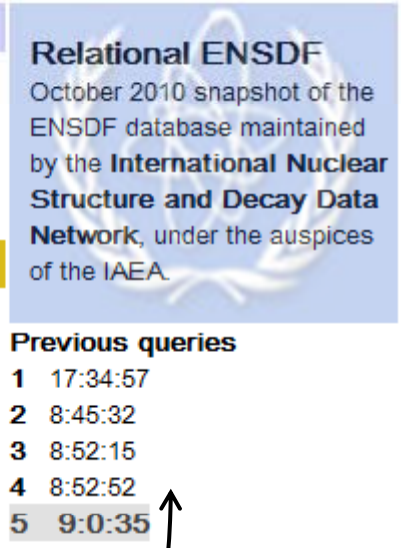


Plot mass number versus mixing of E2 mixed gamma transactions from a level J 2` to a level J 2 in even-even nuclides – use log on Y axis



Fields show upper and lower values present in the database





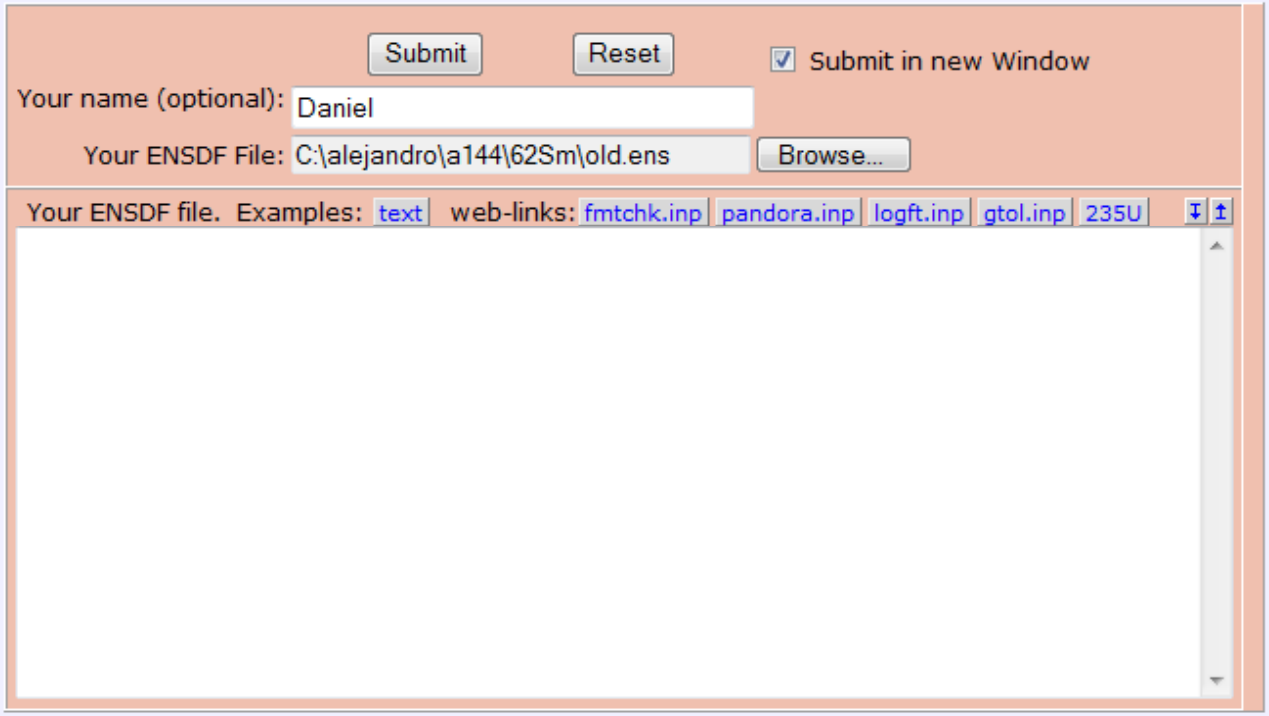
Previous queries history for quick recalling

http://nds121.iaea.org/exfor1/myensdf0.htm

Web tools for ENSDF evaluators

by V.Zerkin, IAEA-NDS, April 2011

Upload your ENSDF data file, run remotely ENSDF analysis codes
FMTCHK, GTOL, LOGFT, PANDORA



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Last updated: 04/19/2011 19:59:18

Run ENSDF Analysis Codes on Web

by V.Zerkin, IAEA-NDS, April 2011

<--- under development --->

Request #210
Username: Daniel
Uploading... File: **old.ens** size:132Kb (134310 bytes)
ENSDF file copy: ENS4up00210.txt size:132Kb (134310 bytes)
...Nuclide: 144SM
...See: copy of your data file old.ens: [text], working ENDSF File: [ENS4up00210.ensdf]

Run utilities

Programs, parameters, run, results Timeout: 300 sec

FMTCHK Checking ENSDF format /v-10.3a, 28-Sep-2007/
Analyzes the format of an ENSDF formatted file to verify that it conforms to "EVALUATED NUCLEAR STRUCTURE DATA FILE. A Manual for Preparation of Data Sets" by J.K. Tuli, Brookhaven National Laboratory

Input File: ENS4up00210.ensdf
- [x] Errors only (or full report)
- [x] Check continuation cards
- [ ] Report only fatal errors
- [ ] Suppress warning messages
- [ ] Suppress XREF/DSID check

Run

GTOL Determines level energies from a least-squares fit to Eγ's & feedings /v-7.2g, 30-Apr-2010/

Input File: ENS4up00210.ensdf
- [ ] Create a new file with level energies replaced by GTOL results
- [x] Suppress gamma energy comparison
- [x] Suppress intensity comparison

Assumed DCC theory (%): 1.4 (Bricc-1.4%, Hsicc-3%, etc.)

Run

LOGFT Calculates log ft for beta decay /v-7.2, 7-Feb-2001/
This program calculates log ft for beta decay. It also calculates the partial capture fractions for electron capture, the electron capture to positron ratio for positron decay, and the average beta energies. It will do special calculations for first and second forbidden unique; All other categories are treated as allowed.

Input File: ENS4up00210.ensdf

Run

PANDORA Checks physics of ENSDF files /v-7.0b, 01-May-2007/
Provides the physics checks for an ENSDF file

Input File: ENS4up00210.ensdf
- [x] Level report and file sorted
- [x] Gamma report and files sorted
- [x] Radiation report and files sorted
- [x] Cross-reference output
- [ ] Suppress warning messages

Run

NDSPUB ENSDF publication program /v-12.26b, 15-Jul-2008/
Produces PostScript file for an ENSDF file.
Note: Web interface is under development!

Input File: ENS4up00210.ensdf
Type of input: 0 (Cards-0, Working-1, Archive-2, Prepub-3)

Run

Your Files [refresh]

old.ens.ensdf	132669	17:36:54
old.ens.txt	134310	17:36:53

IAEA Commitment to NSDD Activities

CRPs, DDPs…

Individual contracts supporting 6 mass chains and 2 horizontal evaluations

Continual running of ICTP and related workshops

2 staff members dedicating time to ENSDF evaluation, NSDD coordination and NSR keywording + 1 staff (software development)

Thank you