^{84}Sr(n,γ),(n,n):resonances 2006MuZX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 116, 1 (2014)	31-Dec-2013

2006MuZX: Compilation of thermal neutron induced σ and resonance parameter data for nuclei of Z=1-100.

^{85}Sr Levels

All resonance parameters including resonance neutron energies, J^{π}, L, gΓ_n and Γ_γ are directly adopted from the compilation in 2006MuZX unless otherwise indicated; g=(2J+1)/2.

E(level)[†]	J$^{\pi}$	L	Comments
8524.78?	1/2$^+$	0	E(level): fictitious level. E(n)(lab)=−0.409 keV.
8525.36	1/2$^+$	0	E(n)(lab)=0.3646 keV *8*. gΓ_n=1.3 eV *2*, Γ_γ=235 meV *20*, g$\Gamma_n\Gamma_\gamma/\Gamma$=199 meV *20*.
8525.48		[1]	E(n)(lab)=0.488 keV *4*. gΓ_n=0.0046 eV *8*.
8525.51		[1]	E(n)(lab)=0.517 keV *4*. gΓ_n=0.0080 eV *12*.
8525.63	1/2$^+$	0	E(n)(lab)=0.635 keV *5*. gΓ_n=0.5 eV *4*.
8525.70	1/2$^+$	0	E(n)(lab)=0.712 keV *5*. gΓ_n=0.072 eV *12*.
8526.58	1/2$^+$	0	E(n)(lab)=1.60 keV *2*. gΓ_n=0.44 eV *27*.
8526.96	1/2$^+$	0	E(n)(lab)=1.98 keV *3*. gΓ_n=0.33 eV *12*.
8527.22	1/2$^+$	0	E(n)(lab)=2.25 keV *4*. gΓ_n=0.7 eV *4*.
8527.96	1/2$^+$	0	E(n)(lab)=3.000 keV *17*. gΓ_n=4.6 eV *5*.
8528.31	1/2$^+$	0	E(n)(lab)=3.35 keV *2*. gΓ_n=4.4 eV *12*.
8528.56	1/2$^+$	0	E(n)(lab)=3.600 keV *17*. gΓ_n=0.3 eV *5*.
8528.90	1/2$^+$	0	E(n)(lab)=3.95 keV *2*. gΓ_n=0.5 eV *12*.

[†] From $E_{c.m.}$+S(n) where S(n)=8525 *3* (2012Wa38) and $E_{c.m.}$ deduced from E(n)(lab) in 2006MuZX. Absolute uncertainty on each excitation energy is 3 keV, same as in S(n).