^{74}Se(n,γ),(n,n):resonances 2006MuZX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh	NDS 114, 841 (2013)	30-Jun-2013

2006MuZX: Evaluation of neutron resonances.
2011Og03: E(n)=15-100, 500 keV; measured gamma spectra, deduced capture cross sections.

^{75}Se Levels

E(level)[†]	J$^{\pi}$	L	Comments
8027.38? *7*	1/2$^+$	0	Fictitious level. E_n(lab)=−0.22 keV. gΓ_n=(0.25) eV.
8027.63 *7*	1/2$^+$	0	E_n(lab)=0.02713 keV *2*. gΓ_n=0.170 eV *8*, Γ_γ=0.21 eV *2*.
8027.87 *7*	1/2$^+$	0	E_n(lab)=0.2715 keV *10*. gΓ_n=4.5 eV *2*, Γ_γ=0.30 eV *5*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.28 eV *5*.
8028.61 *7*	1/2$^+$	0	E_n(lab)=1.0210 keV *1*. gΓ_n=2.4 eV *4*, Γ_γ=0.30 eV *5*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.27 eV *5*.
8028.96 *7*	1/2$^+$	0	E_n(lab)=1.3750 keV *7*. gΓ_n=1.22 eV *9*, Γ_γ=0.32 eV *5*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.25 eV *5*.
8029.21 *7*	1/2$^+$	0	E_n(lab)=1.630 keV *7*. gΓ_n=0.14 eV *4*.
8029.31 *7*	1/2$^+$	0	E_n(lab)=1.732 keV *4*. gΓ_n=9.9 eV *6*, Γ_γ=0.27 eV *6*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.26 eV *6*.
8029.87 *8*	1/2$^+$	0	E_n(lab)=2.303 keV *24*. gΓ_n=1.6 eV *4*, Γ_γ=0.28 eV *5*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.23 eV *5*.
8034.72 *8*	1/2$^+$	0	E_n(lab)=7.22 keV *3*. gΓ_n=21 eV *4*.

[†] E(level energy)=S(n)+ E_n(lab)[nuclear mass of ^{74}Se]/ [mass of neutron+nuclear mass of ^{74}Se], where S(n)=8027.60 *7* (2012Wa38).