^{78}Se(n,γ):resonances 2006MuZX

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 135, 193 (2016)	31-May-2016

J^π(^{78}Se g.s.)=0$^+$.

^{79}Se Levels

E(level)[†]	J^π	Comments
S(n)-3.87?	1/2$^+$	
S(n)+0.3830 *1*	1/2$^+$	gΓ_n=0.325 eV *30*, Γ_γ=0.21 eV *3*.
S(n)+0.8465 *3*		gΓ_n=0.022 eV *4*.
S(n)+1.3550 *7*		gΓ_n=0.026 eV *5*.
S(n)+2.017 *2*		gΓ_n=0.15 eV *3*.
S(n)+2.394 *4*		gΓ_n=0.127 eV *25*.
S(n)+3.227 *20*	1/2$^+$	gΓ_n=12.3 eV *7*, Γ_γ=0.260 eV *55*. g$\Gamma_n\Gamma_\gamma/\Gamma$=0.260 eV *55*.
S(n)+3.85 *4*		gΓ_n=0.36 eV *18*.
S(n)+4.605 *5*		gΓ_n=0.39 eV *17*.
S(n)+5.637 *6*	1/2$^+$	gΓ_n=1.8 eV *10*, Γ_γ=0.23 eV *5*. g$\Gamma_n\Gamma_\gamma/\Gamma$=0.20 eV *5*.
S(n)+6.129 *6*	1/2$^+$	gΓ_n=64 eV *3*.
S(n)+6.86 *6*	1/2$^+$	gΓ_n=3.5 eV *18*, Γ_γ=0.22 eV *5*. g$\Gamma_n\Gamma_\gamma/\Gamma$=0.21 eV *5*.
S(n)+9.25 *10*	1/2$^+$	gΓ_n=39.0 eV *6*.
S(n)+11.06 *13*	1/2$^+$	gΓ_n=80 eV *6*.
S(n)+19.1 *3*	1/2$^+$	gΓ_n=23 eV *8*.
S(n)+20.2 *3*	1/2$^+$	gΓ_n=17 eV *5*.
S(n)+26.9	1/2$^+$	gΓ_n=109 eV.
S(n)+29.4	1/2$^+$	gΓ_n=67 eV.
S(n)+31.2	1/2$^+$	gΓ_n=46 eV.
S(n)+33.0	1/2$^+$	gΓ_n=62 eV.
S(n)+40.5	1/2$^+$	gΓ_n=150 eV.

[†] S(n)+E(n), where S(n)=6962.83 *13* (2012Wa38), E(n) values in lab system are from 2006MuZX evaluation.