^{76}Se(n,n),(n,γ):resonances 2018MuZY

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	30-Sep-2020

All data are from 2018MuZY evaluation, the level energies are computed by the evaluator.

^{77}Se Levels

g=statistical weight factor=(2J+1)/2 for ^{76}Se+n, J=level spin.

E(level)[†]	J^π	L	Comments
7418.831?	$1/2^+$	0	E(level): fictitious level from E(n)(lab)=−0.0296 keV.
7419.232 *10*	$1/2^+$	0	E(n)(lab)=0.3774 keV *10*, gΓ_n=0.30 eV *3*, Γ_γ=0.240 eV *33*.
7419.711 *3*	$1/2^+$	0	E(n)(lab)=0.862 keV *3*, gΓ_n=3.53 eV *25*, Γ_γ=0.220 eV *33*.
7419.7692 *3*	$1/2^-$,$3/2^-$	1	E(n)(lab)=0.9213 keV *3*, gΓ_n=0.040 eV *8*.
7420.0571 *5*	$1/2^-$,$3/2^-$	1	E(n)(lab)=1.2130 keV *5*, gΓ_n=0.027 eV *5*.
7420.197 *10*	$1/2^-$,$3/2^-$	1	E(n)(lab)=1.355 keV *10*, gΓ_n=0.023 eV *4*.
7420.321 *12*	$1/2^-$,$3/2^-$	1	E(n)(lab)=1.480 keV *12*, gΓ_n=0.016 eV *4*.
7420.454 *8*	$1/2^-$,$3/2^-$	1	E(n)(lab)=1.646 keV *8*, gΓ_n=0.008 eV *4*.
7420.945 *2*	($1/2^-$,$3/2^-$)	(1)	E(n)(lab)=2.113 keV *2*, gΓ_n=0.017 eV *15*.
7421.395 *2*	$1/2^+$	0	E(n)(lab)=2.569 keV *2*, gΓ_n=14.240 eV *85*, Γ_γ=0.230 eV *46*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.230 eV *46*.
7421.988 *20*	$1/2^-$,$3/2^-$	1	E(n)(lab)=3.170 keV *20*, gΓ_n=0.049 eV *10*.
7422.197 *3*	$1/2^+$	0	E(n)(lab)=3.381 keV *3*, gΓ_n=14.0 eV *9*, Γ_γ=0.25 eV *5*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.25 eV *5*.
7422.75 *3*	($1/2^-$,$3/2^-$)	(1)	E(n)(lab)=3.940 *27*, gΓ_n=0.22 eV *5*.
7423.11 *3*	$1/2^+$	0	E(n)(lab)=4.313 keV *31*, gΓ_n=4 eV *2*, Γ_γ=0.21 eV *5*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.20 eV *5*.
7423.827 *5*	($1/2^+$)	(0)	E(n)(lab)=5.033 keV *5*, gΓ_n=0.5 eV.
7424.18 *5*	$1/2^+$	0	E(n)(lab)=5.387 keV *48*, gΓ_n=30.0 eV *85*.
7425.22 *6*	$1/2^+$	0	E(n)(lab)=6.437 keV *57*, gΓ_n=18 eV *2*.
7425.92 *7*	$1/2^+$	0	E(n)(lab)=7.148 keV *66*, gΓ_n=22.8 eV *35*.
7427.23 *13*	$1/2^+$	0	E(n)(lab)=8.48 keV *13*, gΓ_n=2.7 eV *13*.
7428.94 *11*	$1/2^+$	0	E(n)(lab)=10.21 keV *11*, gΓ_n=20.9 eV *20*.
7430.03 *20*	$1/2^+$	0	E(n)(lab)=11.32 keV *20*, gΓ_n=2.43 eV *70*.
7431.97 *25*	$1/2^+$	0	E(n)(lab)=13.28 keV *25*, gΓ_n=25.2 eV *90*.

[†] From E(n)(c.m.) and S(n)(^{77}Se)=7418.86 *6* (2017Wa10). E(c.m.) are obtained from E(n)(lab) in 2018MuZY. Uncertainties are those in E(n)(lab), 0.06 keV uncertainty in S(n) value is not included here, but it is included in Adopted Levels.