^{76}Ge(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 evaluators.
Additional information 1.

^{77}Ge Levels

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

E(level)†	J^π	L	Comments
6067.2?	$1/2^+$	0	E(level): fictitious level from E(n)(lab)=−4.160 keV; not included in the Adopted dataset.
6071.834 *1*	$1/2^+$	0	E(n)(lab)=0.551 *1* keV, gΓ_n=0.35 eV *8*, Γ_γ=0.115 eV *25*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.087 eV *25*.
6076.113 *5*	$1/2^+$	0	E(n)(lab)=4.786 *5*, gΓ_n=4 eV *1*, Γ_γ=0.120 eV *25*, g$\Gamma_n\Gamma_\gamma/\Gamma$=0.117 eV *25*.
6077.386 *6*	$1/2^+$	0	E(n)(lab)=6.177 *6* keV, gΓ_n=2.5 eV *5*.
6085.284 *14*	$1/2^+$	0	E(n)(lab)=14.180 *14*, gΓ_n=25 eV *10*.
6086.222 *15*	$1/2^+$	0	E(n)(lab)=15.130 *15*, gΓ_n=84 eV *11*.
6092.084 *21*	$1/2^+$	0	E(n)(lab)=21.070 *21*, gΓ_n=41 eV *17*.
6093.702 *22*	$1/2^+$	0	E(n)(lab)=22.710 *22*, gΓ_n=175 eV *25*.
6100.50 *3*	$1/2^+$	0	E(n)(lab)=29.600 *30*, gΓ_n=760 eV *190*.
6119.0 *6*	$1/2^+$	0	E(n)(lab)=48.30 *60*, gΓ_n=230 eV *120*.

† From E(n)(c.m.) and S(n)(^{77}Ge)=6071.29 *5* (2017Wa10). E(c.m.) are obtained from E(n)(lab) in 2018MuZY. Uncertainties are those in E(n)(lab), 0.05 keV uncertainty in S(n) value is not included here, but it is included in Adopted Levels.