^{60}Co(n,γ),(n,n):resonances 2006MuZX

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Kazimierz Zuber, Balraj Singh	NDS 125, 1 (2015)	25-Jan-2015

2006MuZX: evaluation of neutron resonance data.
1979An26: E(n)=0.01-3000 eV; measured σ(E). ^{61}Co resonances deduced parameters.
J^{π}(^{60}Co g.s.)=5^{+}.

^{61}Co Levels

E(level)[†]	J^{π}	L	Comments
9319.1?	9/2^{+},11/2^{+}	0	Fictitious level corresponding to a negative value of resonance energy. E(n)(lab)=−0.100 keV, Γ_{γ}=(1.2) eV.
9320.01	9/2^{+},11/2^{+}	0	E(n)(lab)=0.820 keV, 2gΓ_{n}=3.2 eV *5*, Γ_{γ}=(0.5) eV.
9320.91	9/2^{+},11/2^{+}	0	E(n)(lab)=1.740 keV, 2gΓ_{n}=6.7 eV *13*, Γ_{γ}=(0.5) eV.
9321.19	9/2^{+},11/2^{+}	0	E(n)(lab)=2.020 keV, 2gΓ_{n}=44 eV *6*, Γ_{γ}=(0.5) eV.
9321.66	9/2^{+},11/2^{+}	0	E(n)(lab)=2.505 keV, 2gΓ_{n}=9.71 eV *15*, Γ_{γ}=(0.5) eV.

[†] S(n)+E(n)(c.m.), where S(n)(^{61}Co)=9319.2 *8* (2012Wa38).