^{59}Co(p,d) 1978Ik02,1965Ba29,1964Le10

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	C. D. Nesaraja and B. Singh	ENSDF	31-Oct-2015

J^π(^{59}Co g.s.)=7/2$^-$.

1978Ik02: E=50 MeV beam produced and focused by Raiden magnetic spectrograph at RCNP; deuterons detected and identified by two proportional counters and plastic scintillator. Measured excitation energies. FWHM=15 keV.

E=22 MeV, FWHM=25-30 keV (1965Ba29); 18.5 MeV, FWHM=45 keV (1964Le10).

Measured: σ(E) (1965Ba29), σ(E,θ) (1964Le10).

^{58}Co Levels

E(level)‡	J$^\pi$	L	S†	Comments
0.0		#	#	
25		#	#	
90				
350		@	@	
440		@	@	
1030		1	0.19	
1750?				
2610		3	2.2	
5656 *25*				
5703 *25*	0$^+$			E(level): analog of ^{58}Fe g.s.
5722 *25*				
5736 *25*				
5835 *25*				

† From 1964Le10.

‡ From 1965Ba29 for levels below 1100 keV; from 1964Le10 for levels between 1700-3000 keV and from 1978Ik02 for levels above 3000 keV.

L=1, S=0.42 for g.s.+25 doublet.

@ L=1, S=0.92 for 350+440 doublet.