^{59}Co(p,n) 1967St18

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 151, 1 (2018)	1-Apr-2018

Others: 1957Ch30, 1957Bu37, 1961Lo03, 1962An02, 1963An01, 1966St20, 1967Co13, 1970Te02, 1983Ka02, 1985Bl12, 1987PeZZ.
1967St18, 1966St20: E(p)=4.3, 5.3 MeV, tof, FWHM=10-20 keV.
For n spectra extending into continuum and including IAS, see 1962An02, 1963An01, 1967Co13, 1985Bl12, 1987PeZZ.

^{59}Ni Levels

E(level)‡	Jπ†	E(level)‡	E(level)‡	E(level)‡	Jπ†
0.0		1743 *5*	3036 *5*	3378 *5*	
344 *5*		1775 *5*	3047 *5*	3414 *5*	
470 *5*		1950 *5*	3061 *5*	3447 *5*	
878 *5*		2415 *8*	3124 *5*	3515 *5*	
1195 *5*	5/2	2532 *5*	3176 *5*	3528 *5*	
1311 *5*		2630 *5*	3298 *5*	3556 *5*	
1345 *5*		2684 *5*	3305 *5*	3638 *5*	
1688 *7*		2710 *5*	3341 *5*	7296[#] *20*	7/2$^-$[&]
1695 *7*		2901 *5*	3355 *5*	17.04×10^3[@] *30*	3/2$^-$[*a*]

† From comparison between experimental neutron σ and Hauser-Feshbach theory (1970Te02).
‡ From 1967St18, except as noted.
# From measured Q=−9151 *20* (1967Co13) and ^{59}Co(p,n) reaction Q value of −1855 for g.s. population.
@ From measured Q=−18900 *300* (1965Ba38) and ^{59}Co(p,n) reaction Q value of −1855 for g.s. population.
& If analogue of ^{59}Co g.s.
a If analogue of ^{59}Fe g.s.