^{56}Fe(^{3}He,t) 1977Zi02,1975Ri05,1970Dz01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huo Junde, Huo Su, Yang Dong	NDS 112, 1513 (2011)	29-Oct-2009

1977Zi02: E=38.2 MeV, 35-keV FWHM; measured σ(E(t),θ), DWBA analysis.
1975Ri05: E=38.2 MeV; measured σ(E(t),θ).
1970Dz01: E=24.6 MeV, FWHM: 12-keV; measured σ(E(t),θ).
Other: 1962Bl07.

^{56}Co Levels

E(level)[†]	J$^{\pi}$[@]	L[&]	Comments
0.0		2+4	
158		2+4	
576		6	
830			
970		2	
1008			
1115		2+4	
1451	0^{+}	2	Anti-analog state of 0^{+} g.s. in ^{56}Fe (1975Ri05).
1720		0+2	
1930		2+4	
2060		2	
2225		(2)	
2281		2+6	E(level): 2281 and 2288 unresolved (1977Zi02).
2288		2+6	E(level): 2281 and 2288 unresolved (1977Zi02).
2636		0+2	
2730		0+2	
2970		2	
3061		2+4	
3177		0+4	
3300			
3362[‡] *12*			
3423[‡] *12*			
3489[‡] *12*			
3522[‡] *12*	0^{+}	0	IAS of 0^{+} g.s. in ^{56}Fe (1970Dz01).
3539?[‡] *12*			
3592[‡] *12*	0^{+}	0	IAS of 0^{+} g.s. in ^{56}Fe (1970Dz01).
3602? *12*			
3694 *12*			
≈4300[#]			
≈5400[#]			

[†] From 1977Zi02 and 1975Ri02, energies are taken from 1971Sc18 and 1973Sa11, except as noted.
[‡] From 1970Dz01.
[#] From 1962Bl07.
[@] Based on IAS and AAS analyses (1970Dz01 and 1975Ri05).
[&] From 1977Zi02 based on $\sigma(\theta$,E) and DWBA analysis.