^{56}Fe(d,d′) 1970Jo07,1968Ma36,1996De16

History

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

1996De16: E=56 MeV, measured $\sigma(\theta)$, coupled-channels analysis, determined matrix elements for transitions from g.s. and first 2^+ state to 2^+, 3^-, and 4^+ states. The isospin character of the transitions is deduced. See also 1990Ta38.
1970Jo07: E=11.5 MeV, measured σ(E(d′),θ), DWBA analysis.
1968Ma36: E=12 MeV, measured σ(E(d′),θ), DWBA analysis.
For polarized deuteron beam and optical model parameters, see 1977Pe07 and 1980Bu02.
All data are from 1970Jo07, except as noted.

^{56}Fe Levels

E(level)	L[†]	β_L[‡]	Comments
0			
846[#]	2	0.27 *1*	
2085[#]	(4)	0.13	L,β_L: from 1968Ma36.
2657[#]	2	0.086 *5*	
2960[#]	2	0.063 *6*	
3123[#]	4	0.106 *4*	
3370[#]	2	0.071 *6*	
3602[#]	2	0.055 *3*	
3832[#]	2	0.056 *3*	
4100	4	0.096 *6*	
4510	3	0.20 *1*	

[†] Based on $\sigma(\theta)$ fits with DWBA.
[‡] From DWBA.
[#] From 1996De16.