^{56}Fe(^{3}He,^{3}He′)   **1980Le25,1975Ar16,1973Ma04**

History

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

1980Le25: E=108.5 MeV, GMR, DWBA analysis.
1975Ar16: E=80 MeV, giant resonances, DWBA analysis.
1973Ma04: E=33.45, 53.4 MeV, measured $\sigma(\theta)$, DWBA analysis.
1975Cl07: E=33.4, 53.4, 82.7 MeV, coupled-channel analysis, deduced deformation parameters.
For deformation parameters deduced from polarized-beam work, see 1983Le03.
Other: 1967Fl02.
All data from 1973Ma04, except as noted.

^{56}Fe Levels

E(level)	$J^{\pi\ddagger}$	L†	β_L @	Comments
0				
850		2	0.217	
2650				
4509		3	0.155	
13.5×10$^{3\#}$ 2	2$^+$,4$^+$			Γ=1.0 MeV 5
16.6×10$^{3\#}$ 3		2	0.19 2	Γ=6.0 MeV 5
				GQR (1975Ar16).
17.0×10^3 2				Γ=3.6 MeV 2
				GMR (1980Le25).

† From $\sigma(\theta)$ fits with DWBA.
‡ From giant resonance analyses (1975Ar16).
$^\#$ From 1975Ar16.
$^@$ From DWBA.