

$^{56}\text{Fe}(\text{t},^3\text{He})$ **1985Aj02**

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

E=25 MeV, measured $\sigma(E(t))$, $\sigma(\theta)$ with Q3D $\theta=5.5^\circ-50^\circ$; coupled-channels calculations.

 ^{56}Mn Levels

E(level)	J^π	L	E(level)	J^π	L	E(level)	J^π	L	E(level)	J^π	L
0	(3 ⁺)	2+4	1515 8	(2 ⁺)	2	2555 20	(5 ⁺)	4+6	3608 [‡] 20		
29 5	(2 ⁺)	2	1560 10	(1 ⁺)	0+2	2617 15	(1 ⁺)		3650 [‡] 20	(1 ⁺)	0+2
112 5	(1 ⁺)	0+2	1655 15	(1 ⁺)		2679 [‡] 20			3707 [‡] 20		
213 [‡] 5		2	1724 8			2759 20	(1 ⁺)		3740 20		
340 [‡] 8			1752 10			2792 15	(2 ⁺ ,3 ⁺)		3773 20		
455 8	(3 ⁺)	2+4	1780 15			2824 15			3795 [‡] 30		
487 5	(3 ⁺)	2+4	1825 10	(1 ⁺)	0+2	2849 [‡] 15			3847 [‡] 30		
710 8	(4 ⁺)	4	1861 [‡] 20	(2 ⁺)		2914 20			3911 20	(5 ⁺)	4+6
754 8			1970 10	(3 ⁺)	2+4	2988 15			3928 30		
845 [‡] 10	(3 ⁺)		2005 10			3008 15			3980 [‡] 30	(5 ⁺)	4+6
1140 10			2045 15			3069 [‡] 20			3998 [‡] 20	(1 ⁺)	0+2
1165 10	(1 ⁺)	0+2	2075 [‡] 15	(2 ⁺)	2	3118 [‡] 20	(5 ⁺)	4	4051 [‡] 30		
1195 10	(3 ⁺)	2+4	2118 [‡] 15	(4 ⁺)	4	3185 [‡] 20	(1 ⁺)	0+2	4120 [‡] 40		
1245 8	(1 ⁺ ,2 ⁺)		2176 15	(1 ⁺)		3228 [‡] 20			4170 [‡] 40	(4 ⁺)	
1295 8	(2 ⁺)	2	2236 [‡] 15			3260 20	(1 ⁺)		4210 [‡] 40		
1357 [‡] 10			2294 [‡] 15	(2 ⁺)	2	3312 [‡] 25			4250 [‡] 40		
1447 15			2415 [‡] 20	(2 ⁺)		3370 [‡] 20			4320 [‡] 40		
1484 8	(1 ⁺ ,2 ⁺)		2521 20	(1 ⁺)	0+2	3544 [‡] 30	(1 ⁺)				

[†] Based on comparison between $\sigma(\theta)$ measurements and coupled-channels calculations.

[‡] Unresolved states.