

${}^{57}\text{Fe}(\text{t,p})$ 1972Mc18

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

$J^\pi({}^{57}\text{Fe})=1/2^-$.

$E(\text{t})=12$ MeV, measured $\sigma(\theta)$, $\theta(\text{C.M.})$ from $\approx 5^\circ$ to $\approx 70^\circ$, enriched targets (92.8%), multigap spectrograph, FWHM=20 keV for 16 MeV protons, L values are from comparison with DWBA calculations (1972Mc18).

 ${}^{59}\text{Fe}$ Levels

<u>E(level)[†]</u>	<u>L</u>	<u>E(level)[†]</u>	<u>L</u>	<u>E(level)[†]</u>	<u>L</u>	<u>E(level)[†]</u>	<u>L</u>
0.0	2	1214	0	2488	(4)	3103	2
287	0	1517	5	2565	2	3160	2
473	2	1572	2	2759		3225	1
574	2	1648		2812	0	3282	2+(4)
728	2	1749	2	2856	0	3388	2
1026	4	1921 [‡]	(2)	2943	2	3543	2
1162	2	1962	0	3071	2		

[†] ΔE not stated by authors.

[‡] Doublet.