

$^{56}\text{Fe}(\alpha, \alpha' \gamma)$ 1977Be27

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

E=12-24 MeV, measured $\sigma(e, e\gamma)$ $\gamma\gamma$ -coin, $\sigma(E, E\gamma, \theta)$. See (HI, xn γ) data set for J^π and $T_{1/2}$.

 ^{56}Fe Levels

E(level) [†]	J^π [‡]
0	0 ⁺
846.7 5	2 ⁺
2085.0 7	4 ⁺
3123.4 9	4 ⁺
3388.5 9	6 ⁺
3756.7 9	6 ⁺
4700.9 9	7 ⁺
5256.2 9	8 ⁺
5627.3 10	8 ⁺

[†] For the levels connected by gammas, from E_γ using least-squares adjustment procedure, except as noted.

[‡] From Adopted Levels.

 $\gamma(^{56}\text{Fe})$

E_γ [†]	I_γ [‡]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
846.7 5	100 6	846.7	2 ⁺	0	0 ⁺
926.4 5	1.6 3	5627.3	8 ⁺	4700.9	7 ⁺
944.2 5	1.1 3	4700.9	7 ⁺	3756.7	6 ⁺
1038.4 5	8.0 5	3123.4	4 ⁺	2085.0	4 ⁺
1238.3 5	77.0 35	2085.0	4 ⁺	846.7	2 ⁺
1303.5 5	19.0 10	3388.5	6 ⁺	2085.0	4 ⁺
1312.3 5	6.5 5	4700.9	7 ⁺	3388.5	6 ⁺
1499.5 5	0.93 18	5256.2	8 ⁺	3756.7	6 ⁺
1671.6 5	7.6 5	3756.7	6 ⁺	2085.0	4 ⁺
1867.7 5	3.3 3	5256.2	8 ⁺	3388.5	6 ⁺

[†] From 1977Be27.

[‡] Relative photon intensities normalized to $I_\gamma(847\gamma)=100$.

