

${}^{56}\text{Fe}(n,2n\gamma)$ 1978Co18

<u>Type</u>	<u>Author</u>	<u>History Citation</u>	<u>Literature Cutoff Date</u>
Full Evaluation	Huo Junde	NDS 109, 787 (2008)	30-Apr-2007

E=16.2, 18.1, 19.3, 20.5, and 21.8 MeV, FWHM=400 keV; natural targets; Ge(Li), FWHM=3.6 keV at 1.3 MeV; measured E_γ , $\sigma(E(n), E_\gamma)$ at 55° .

See also: [1975Or02](#), [1977De35](#), [1982G106](#), [1982Sh26](#), and [1982Sh28](#).

 ${}^{55}\text{Fe}$ Levels

<u>E(level)</u>
0.0
412.5 3
931.4 3
1317.7 5
1408.9 4
2212.4 7
2302.0 11
2541.1 11
2817.0 12

 $\gamma({}^{55}\text{Fe})$

<u>E_γ</u>	<u>I_γ^\dagger</u>	<u>$E_i(\text{level})$</u>	<u>E_f</u>
275.9 5	0.6	2817.0	2541.1
387.0 6	3.6 11	1317.7	931.4
412.5 3	24.7 25	412.5	0.0
477.4 3	20 2	1408.9	931.4
803.5 5	6.5 26	2212.4	1408.9
931.6 3	83.7 58	931.4	0.0
1223.4 10	13.4 40	2541.1	1317.7
1316.9 6	67.5 68	1317.7	0.0
1370.5 10	4 2	2302.0	931.4
1409.2 10	18 6	1408.9	0.0

$^\dagger \sigma(16.2 \text{ MeV}; E_\gamma)$ in mb.

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Level Scheme

Intensities: Relative I_γ

Legend

- \longrightarrow $I_\gamma < 2\% \times I_\gamma^{\max}$
- \longrightarrow $I_\gamma < 10\% \times I_\gamma^{\max}$
- \longrightarrow $I_\gamma > 10\% \times I_\gamma^{\max}$

