

⁵⁴Fe(γ,γ') 1976La02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 121, 1 (2014)	20-Jun-2014

E=6.13 MeV, measured $\sigma(E\gamma)$, $\sigma(\theta)$. Ge(Li).

⁵⁴Fe Levels

E(level)	J ^{π} [†]	Comments
0	0 ⁺	
1408.3 3	2 ⁺	
3167.2 10	2 ⁺	
4291.6 10	0 ⁺	
6129.0 2	1	$\Gamma=0.027$ eV 4; $\Gamma_{\gamma 0}=0.025$ eV 4 J ^{π} : from 6129.0 $\gamma(\theta)$.

[†] From Adopted Levels.

$\gamma(^{54}\text{Fe})$

E _{γ}	I _{γ} [†]	E _i (level)	J ^{π} _i	E _f	J ^{π} _f
1408.3		1408.3	2 ⁺	0	0 ⁺
1837.4	2.5 5	6129.0	1	4291.6	0 ⁺
2883.3		4291.6	0 ⁺	1408.3	2 ⁺
2961.8	2.5 4	6129.0	1	3167.2	2 ⁺
3167.2		3167.2	2 ⁺	0	0 ⁺
4720.7	2.3 6	6129.0	1	1408.3	2 ⁺
6129.0	93 1	6129.0	1	0	0 ⁺

[†] % photon branching.

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Level Scheme

Intensities: Relative I_γ

Legend

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

