

$^{50}\text{Cr}(\text{He},\text{n}\gamma)$ **1977Ir02**

Type	Author	History		Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde	NDS	128, 185 (2015)	10-Jul-2015

E=8 MeV, measured $\text{n}\gamma$ -coin, $\gamma\gamma$ -coin, DSAM. a vertical-type 55 cm^3 Ge(Li) detector, a horizontal-type 55 cm^3 Ge(Li) detector, liquid scintillator $\neq -213$ neutron detector.

Other: [1976GeZZ](#).

 ^{52}Fe Levels

E(level)	J $^\pi$ [†]	T $_{1/2}$ [‡]	Comments
0.0	0 ⁺		
849.6 7	2 ⁺	>0.7 ps	
2385.7 10	4 ⁺	0.28 ps +14-21	
2759.8 9	2 ⁺	0.14 ps +9-5	
3586.7 12	4 ⁺	0.28 ps +21-7	
4145.8 21	0 ⁺		
4329.7 23	6 ⁺		J $^\pi$: 1944 γ is very weak as the yrast 6 ⁺ to 4 ⁺ transition.
4397 3	3 ⁻		
4851.7 14	(5 ⁻ ,6 ⁺)	0.5 ps +23-2	
5139.6 13	5 ⁻		

[†] From Adopted Levels, except as noted.

[‡] DSAM measurements.

 $\gamma(^{52}\text{Fe})$

E $_\gamma$	I $_\gamma$ [†]	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	E $_\gamma$	I $_\gamma$ [†]	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$
849.5 7	100	849.6	2 ⁺	0.0	0 ⁺	2737 1	12 2	3586.7	4 ⁺	849.6	2 ⁺
1536.0 7	26 2	2385.7	4 ⁺	849.6	2 ⁺	2760 1	19 2	2759.8	2 ⁺	0.0	0 ⁺
1910 2	6 2	2759.8	2 ⁺	849.6	2 ⁺	3296 2	5 2	4145.8	0 ⁺	849.6	2 ⁺
1944 2	2 1	4329.7	6 ⁺	2385.7	4 ⁺	3547 3	6 2	4397	3 ⁻	849.6	2 ⁺
2380 1	2 1	5139.6	5 ⁻	2759.8	2 ⁺	4286 4	5 2	5139.6	5 ⁻	849.6	2 ⁺
2466 1	12 2	4851.7	(5 ⁻ ,6 ⁺)	2385.7	4 ⁺						

[†] Relative photon intensity.

