

$^{51}\text{V}({}^6\text{Li},3n\gamma),({}^7\text{Li},4n\gamma)$     **1974Po15**

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

E=25 MeV, Ge(Li), measured  $\gamma\gamma$ -coincidence,  $\sigma(E\gamma, \theta)$ . $^{54}\text{Fe}$  Levels

E(level)	J $^\pi$ <sup>†</sup>	Comments
0	0 <sup>+</sup>	
1408.6 2	2 <sup>+</sup>	
2538.9 3	4 <sup>+</sup>	
2950.5 3	6 <sup>+</sup>	
6381.5 30	8 <sup>+</sup>	J $^\pi$ : probably high spin states belonging to Configuration=(( $\pi$ 1f <sub>7/2</sub> ) <sup>+5</sup> ( $\pi$ 2p <sub>3/2</sub> )) or Configuration=(( $\pi$ 1f <sub>7/2</sub> ) <sup>+6</sup> ( $\nu$ 1f <sub>7/2</sub> ) <sup>-1</sup> ( $\nu$ 2p <sub>3/2</sub> )).
6527.7 30	10 <sup>+</sup>	J $^\pi$ : see comment on preceding level.

† From adopted values.

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

E $\gamma$	I $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $^\pi_i$	E <sub>f</sub>	J $^\pi_f$	Mult.	Comments
146.2 2	51	6527.7	10 <sup>+</sup>	6381.5	8 <sup>+</sup>		Mult.: A <sub>2</sub> =14 4. Mult.: a stretched quadrupole transition.
411.6 2	27 1	2950.5	6 <sup>+</sup>	2538.9	4 <sup>+</sup>	Q	Mult.: A <sub>2</sub> =23 2.
1130.3 2	52 2	2538.9	4 <sup>+</sup>	1408.6	2 <sup>+</sup>	Q	Mult.: A <sub>2</sub> =22 3.
1408.6 2	76 3	1408.6	2 <sup>+</sup>	0	0 <sup>+</sup>	Q	Mult.: A <sub>2</sub> =15 3.
3431.0 30	7 2	6381.5	8 <sup>+</sup>	2950.5	6 <sup>+</sup>		E $\gamma$ : 3431 $\gamma$ was not Doppler shifted.

† From angular distribution (three points) fitted only to I $\gamma$ /[1+A<sub>2</sub>P<sub>2</sub>(cos  $\theta$ )].

