

$^{238}\text{U}(^{48}\text{Ca},\text{X}\gamma)$  2004Fo09

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	25-Mar-2022

2004Fo09: E( $^{48}\text{Ca}$ )=330 MeV. Measured  $E\gamma$ ,  $I\gamma$ ,  $\gamma\gamma$ -coin using the Gammasphere array with 101 Compton-suppressed HPGe spectrometers at the ATLAS-ANL facility.

 $^{56}\text{Ti}$  Levels

E(level) <sup>†</sup>	$J\pi^{\ddagger}$
0.0 <sup>#</sup>	0 <sup>+</sup>
1128.8 <sup>#</sup> 5	(2 <sup>+</sup> )
2289.8 <sup>#</sup> 7	(4 <sup>+</sup> )
2979.8 <sup>#</sup> 9	(6 <sup>+</sup> )
4209.8? 14	

<sup>†</sup> From  $E\gamma$  values.

<sup>‡</sup> From 2004Fo09.

<sup>#</sup> Band(A): Yrast sequence.

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

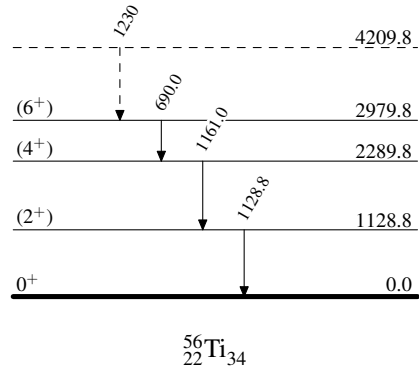
$E_\gamma$ <sup>†</sup>	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Comments
690.0 5	2979.8	(6 <sup>+</sup> )	2289.8	(4 <sup>+</sup> )	
1128.8 5	1128.8	(2 <sup>+</sup> )	0.0	0 <sup>+</sup>	
1161.0 5	2289.8	(4 <sup>+</sup> )	1128.8	(2 <sup>+</sup> )	
1230 <sup>‡</sup> 1	4209.8?		2979.8	(6 <sup>+</sup> )	$I_\gamma$ : 25% of the 690-1161-1129 cascade intensity.

<sup>†</sup> From 2004Fo09.

<sup>‡</sup> Placement of transition in the level scheme is uncertain.

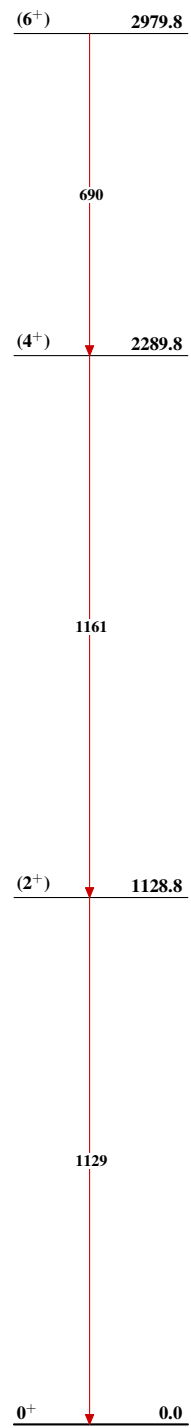
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Legend

Level Scheme-----►  $\gamma$  Decay (Uncertain)

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Band(A): Yrast sequence

 $^{56}_{22}\text{Ti}_{34}$