

$^{208}\text{Pb}(^{48}\text{Ca},\text{X}\gamma)$  2002Ja16

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

Includes  $^9\text{Be}(^{86}\text{Kr},\text{X}\gamma)$ .

$E(^{48}\text{Ca})=305$  MeV, measured  $E\gamma$  using 101 Compton-suppressed Ge detectors of the Gammasphere multi-detector array.

$^9\text{Be}(^{86}\text{Kr},\text{X}\gamma)$ ,  $E=140$  MeV, the fragments were stopped in a 985 UM thick double-sided Si strip detector(DSSD), two 500 UM thick Si PIN detectors for  $\beta$ -particles, measured  $E\gamma$  using six Ge detectors in a circular geometry, and a large volume Ge detector.

 $^{52}\text{Ti}$  Levels

E(level)	$J^\pi$ <sup>†</sup>
0 <sup>‡</sup>	0 <sup>+</sup>
1050.01 <sup>‡</sup> 20	2 <sup>+</sup>
2318.0 <sup>‡</sup> 3	4 <sup>+</sup>
3029.0 <sup>‡</sup> 4	6 <sup>+</sup>
4288.0 <sup>‡</sup> 4	(8 <sup>+</sup> )
6693.1 <sup>‡</sup> 8	(10 <sup>+</sup> )
8857.2 9	
9088.2 9	

<sup>†</sup> From assumption of preferential yrast feeding and the close correspondence between established and calculated levels.

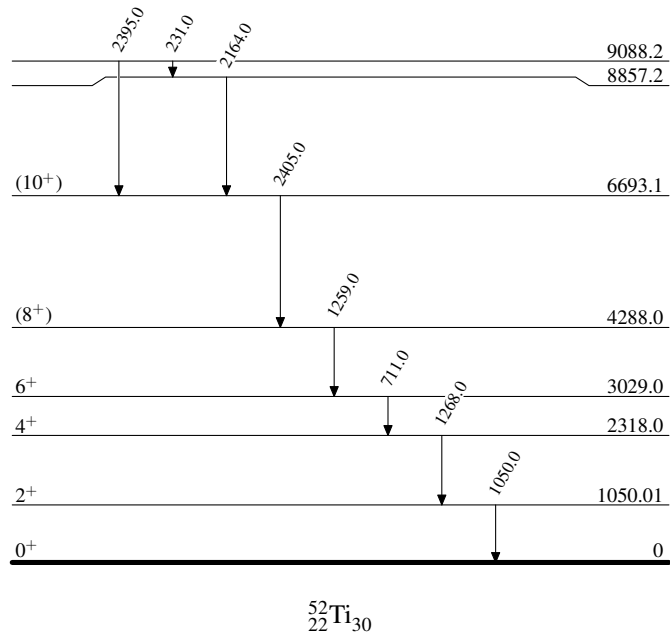
<sup>‡</sup> Band(A): Yrast band.

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

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$
231.0 6	9088.2		8857.2	
711.0 2	3029.0	6 <sup>+</sup>	2318.0	4 <sup>+</sup>
1050.0 2	1050.01	2 <sup>+</sup>	0	0 <sup>+</sup>
1259.0 2	4288.0	(8 <sup>+</sup> )	3029.0	6 <sup>+</sup>
1268.0 2	2318.0	4 <sup>+</sup>	1050.01	2 <sup>+</sup>
2164.0 6	8857.2		6693.1	(10 <sup>+</sup> )
2395.0 6	9088.2		6693.1	(10 <sup>+</sup> )
2405.0 6	6693.1	(10 <sup>+</sup> )	4288.0	(8 <sup>+</sup> )

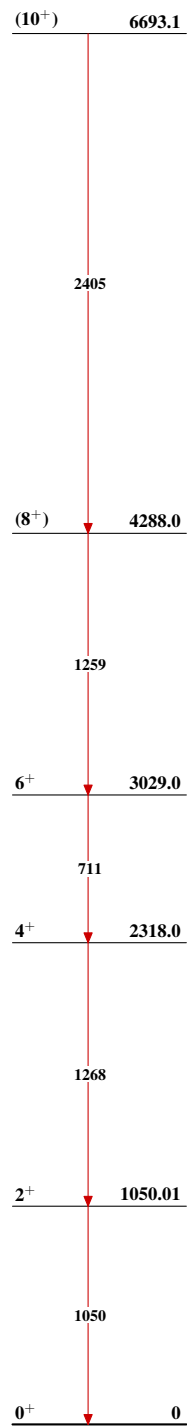
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## Level Scheme

 $^{52}_{22}\text{Ti}_{30}$

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Band(A): Yrast band

 ${}^{52}_{22}\text{Ti}_{30}$