

$^{169}\text{Tm}(^{11}\text{B},4n\gamma)$  1965St03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107, 791 (2006)	15-Sep-2005

1965St03:  $^{169}\text{Tm}(^{11}\text{B},4n\gamma)$ ,  $E(^{11}\text{B})=56$  MeV. Measured ce energies and relative intensities (not reported). Detector: magnetic spectrometer, FWHM=0.5% to 1.0%.

 $^{176}\text{W}$  Levels

E(level)	$J^\pi$ <sup>†</sup>
0.0 <sup>‡</sup>	0 <sup>+</sup>
108.7 <sup>‡</sup> 3	2 <sup>+</sup>
348.5 <sup>‡</sup> 8	4 <sup>+</sup>
699 <sup>‡</sup> 1	6 <sup>+</sup>
1140 <sup>‡</sup> 2	8 <sup>+</sup>
1648 <sup>‡</sup> 2	10 <sup>+</sup>
2206 <sup>‡</sup> 3	12 <sup>+</sup>
2801 <sup>‡</sup> 3	14 <sup>+</sup>
3425 <sup>‡</sup> 4	16 <sup>+</sup>

<sup>†</sup> From Adopted Levels.

<sup>‡</sup> Band(A):  $K^\pi=0^+$  g.s. rotational band.

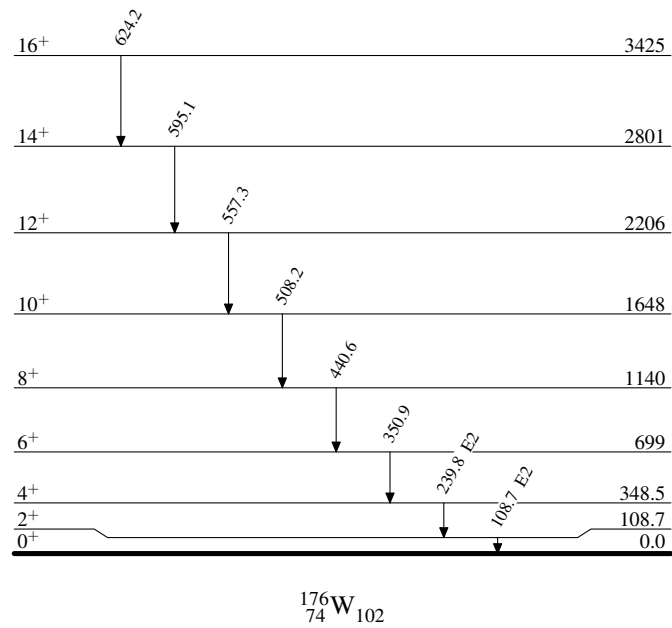
 $\gamma(^{176}\text{W})$ 

$E_\gamma$ <sup>‡</sup>	$E_i$ (level)	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. <sup>†</sup>	$\alpha^\#$
108.7 3	108.7	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2	2.81
239.8 7	348.5	4 <sup>+</sup>	108.7	2 <sup>+</sup>	E2	0.171
350.9 10	699	6 <sup>+</sup>	348.5	4 <sup>+</sup>		
440.6 13	1140	8 <sup>+</sup>	699	6 <sup>+</sup>		
508.2 15	1648	10 <sup>+</sup>	1140	8 <sup>+</sup>		
557.3 17	2206	12 <sup>+</sup>	1648	10 <sup>+</sup>		
595.1 18	2801	14 <sup>+</sup>	2206	12 <sup>+</sup>		
624.2 19	3425	16 <sup>+</sup>	2801	14 <sup>+</sup>		

<sup>†</sup> From ce(K)/ce(L) exp (1965St03).

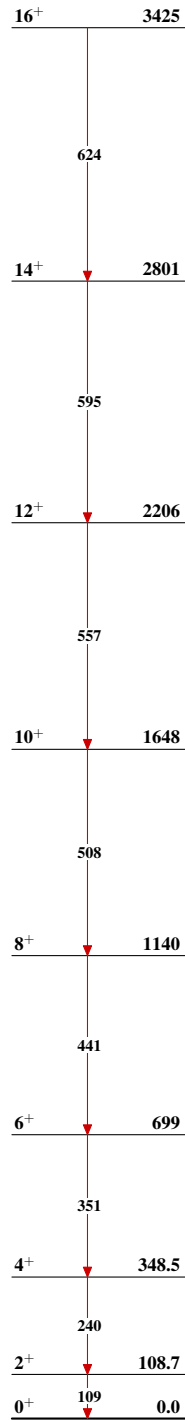
<sup>‡</sup> From  $^{169}\text{Tm}(^{11}\text{B},4n\gamma)$ ,  $\Delta E_\gamma=3\%$  (1965St03).

<sup>#</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

${}^{169}\text{Tm}(11\text{B},4\text{n}\gamma)$  1965St03Level Scheme

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Band(A):  $K^\pi=0^+$  g.s.  
rotational band

 ${}^{176}_{74}\text{W}_{102}$