

<sup>192</sup>Os(<sup>7</sup>Li,6n $\gamma$ ) 1974Tj02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 143, 1 (2017)	31-Mar-2017

E(<sup>7</sup>Li)=58 MeV; measured  $\gamma$ ,  $\gamma\gamma$ ,  $\gamma(\theta)$ ;Ge(Li) detectors.

<sup>193</sup>Au Levels

E(level) <sup>†</sup>	J $\pi$ <sup>‡</sup>	T <sub>1/2</sub>	Comments
0.0	3/2 <sup>+</sup>		
258.0	5/2 <sup>+</sup>		
290.1	11/2 <sup>-</sup>		
539.3	(7/2 <sup>+</sup> )		
697.8	(15/2 <sup>-</sup> )		
809.2	(9/2 <sup>+</sup> )		
890.7	9/2 <sup>-</sup>		
1419.0	(19/2 <sup>-</sup> )		
1479.0	(13/2 <sup>+</sup> )		
1947.7	(21/2 <sup>+</sup> )	10.4 ns 8	T <sub>1/2</sub> : From Adopted Levels. 12 ns in 1974Tj02.
2080.8	(25/2 <sup>+</sup> )		
2141.2	(23/2 <sup>+</sup> )		
2173.5	(23/2 <sup>-</sup> )		
2378.7	(27/2 <sup>-</sup> )		

<sup>†</sup> From 1974Tj02.

<sup>‡</sup> From Adopted Levels.

$\gamma$ (<sup>193</sup>Au)

E $\gamma$	I $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J $\pi$ <sub>i</sub>	E <sub>f</sub>	J $\pi$ <sub>f</sub>	Comments
133.1 <sup>#</sup>	14.1	2080.8	(25/2 <sup>+</sup> )	1947.7	(21/2 <sup>+</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=1.37.
193.5 <sup>#</sup>	30.1	2141.2	(23/2 <sup>+</sup> )	1947.7	(21/2 <sup>+</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=1.08.
205.2	72.8	2378.7	(27/2 <sup>-</sup> )	2173.5	(23/2 <sup>-</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=1.11.
						I $\gamma$ : includes contribution from <sup>192</sup> Os Coulomb excitation.
258.1	38.1	258.0	5/2 <sup>+</sup>	0.0	3/2 <sup>+</sup>	I $\gamma$ (45°)/I $\gamma$ (90°)=0.97.
281.5	6.4	539.3	(7/2 <sup>+</sup> )	258.0	5/2 <sup>+</sup>	I $\gamma$ (45°)/I $\gamma$ (90°)=1.06.
407.7	100	697.8	(15/2 <sup>-</sup> )	290.1	11/2 <sup>-</sup>	I $\gamma$ (45°)/I $\gamma$ (90°)=1.16.
528.7	33.9	1947.7	(21/2 <sup>+</sup> )	1419.0	(19/2 <sup>-</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=0.80.
(539.0 <sup>‡</sup> )		539.3	(7/2 <sup>+</sup> )	0.0	3/2 <sup>+</sup>	
(550.6 <sup>‡</sup> )		809.2	(9/2 <sup>+</sup> )	258.0	5/2 <sup>+</sup>	
600.9	19.4	890.7	9/2 <sup>-</sup>	290.1	11/2 <sup>-</sup>	I $\gamma$ (45°)/I $\gamma$ (90°)=1.04.
669.8	10.7	1479.0	(13/2 <sup>+</sup> )	809.2	(9/2 <sup>+</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=1.77.
						E $\gamma$ : 2014Th02 (p,2n $\gamma$ ) measure a 668.4 keV 2 $\gamma$ ray in $\gamma\gamma$ spectra and do not find any signature of a doublet (without a broadened peak width) in coincidence with 550.6 $\gamma$ . Evaluator considers 669.8 $\gamma$ same as 668.4 $\gamma$ .
721.2	77.8	1419.0	(19/2 <sup>-</sup> )	697.8	(15/2 <sup>-</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=1.20.
754.5	32.5	2173.5	(23/2 <sup>-</sup> )	1419.0	(19/2 <sup>-</sup> )	I $\gamma$ (45°)/I $\gamma$ (90°)=1.27.
1250.1	≈10	1947.7	(21/2 <sup>+</sup> )	697.8	(15/2 <sup>-</sup> )	

<sup>†</sup> Relative I $\gamma$  at 90°.

<sup>‡</sup>  $\gamma$  expected from Adopted Levels, but not measured in this reaction.

<sup>#</sup> Placement in level scheme from Adopted Levels. 1974Tj02 identify as preceding  $\gamma$  of 21/2<sup>+</sup> isomer.

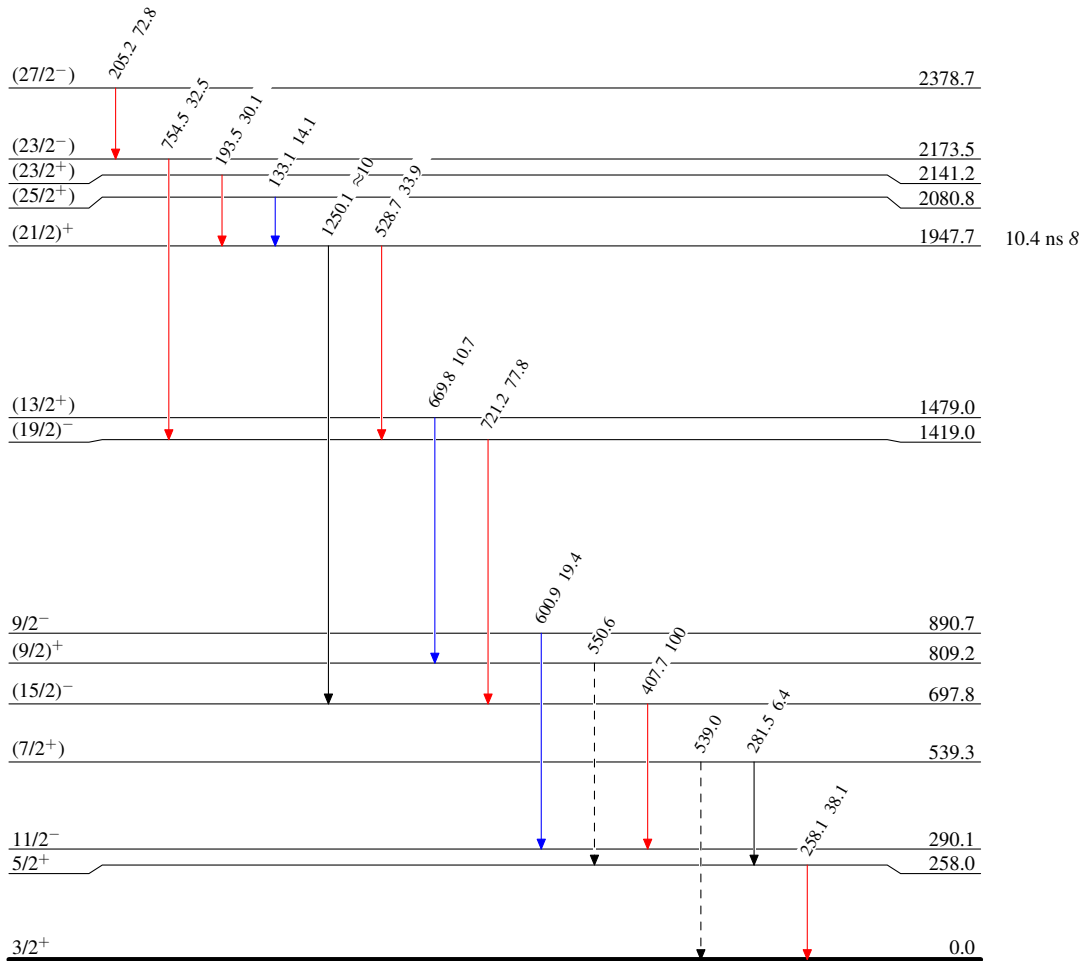
$^{192}\text{Os}(^7\text{Li},6n\gamma)$  1974Tj02

Legend

## Level Scheme

Intensities: Relative  $I_\gamma$ 

- $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
- $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
- $I_\gamma > 10\% \times I_\gamma^{\text{max}}$
- - - - -  $\gamma$  Decay (Uncertain)

 $^{193}_{79}\text{Au}_{114}$