

$^{112}\text{Sn}(\text{Ni},2\text{n}\gamma)$     **1998Ki20**

Type	Author	History		Literature Cutoff Date
		Citation	Date	
Full Evaluation	Coral M. Baglin	NDS 111, 1807 (2010)		15-Jun-2010

**1998Ki20:**  $^{112}\text{Sn}(\text{Ni},2\text{n}\gamma)$ , E=265 MeV; 93.2%  $^{112}\text{Sn}$  target; gas-filled recoil separator, Si strip detector in focal plane; JUROSPHERE  $\gamma$  detector array (17 Compton-suppressed Ge detectors); measured  $E\gamma$ ,  $I\gamma$  from recoil-gated  $\alpha$ -tagged  $\gamma$  spectrum,  $\gamma\gamma$  coin.

 $^{168}\text{Pt}$  Levels

E(level) <sup>†</sup>	J <sup>‡</sup>	T <sub>1/2</sub>	Comments
0.0 <sup>#</sup>	0 <sup>+</sup> <sup>‡</sup>	2.0 ms 2	T <sub>1/2</sub> : from 6800 $\alpha(t)$ ( <a href="#">1998Ki20</a> ).
582? <sup>#</sup>	(2 <sup>+</sup> ) <sup>‡</sup>		
1176? <sup>#</sup>	(4 <sup>+</sup> ) <sup>‡</sup>		
1901? <sup>#</sup>	(6 <sup>+</sup> ) <sup>‡</sup>		

<sup>†</sup> Tentative values assuming the observed  $\gamma$  cascade should Be ordered by decreasing  $E\gamma$  As In  $^{170}\text{Pt}$ ; authors could not determine order of transitions due to similarity between the intensities. ADOPTED values for the upper two levels differ from those shown here.

<sup>‡</sup> Authors' tentative values assuming excitation of g.s. band. However, only the J=0 and 2 members are adopted. more extensive information from the  $^{92}\text{Mo}(^{78}\text{Kr},2\text{n}\gamma)$  reaction ([2009Go16](#)) identify different energy levels As the J=4 and 6 g.s. band members.

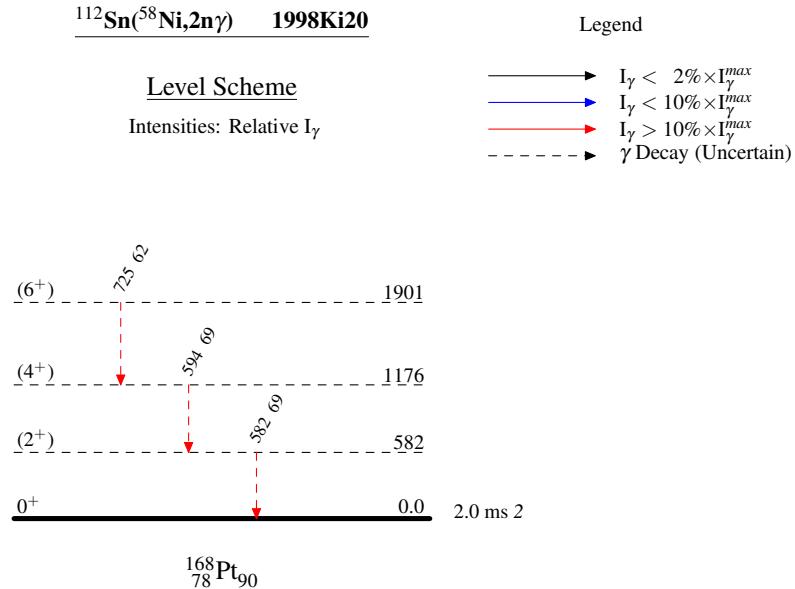
# Band(A): g.s. band?.

 $\gamma(^{168}\text{Pt})$ 

E <sub><math>\gamma</math></sub> <sup>†</sup>	I <sub><math>\gamma</math></sub>	E <sub>i</sub> (level)	J <sub>i</sub> <sup>‡</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>‡</sup>
582? <sup>‡</sup>	69 15	582?	(2 <sup>+</sup> )	0.0	0 <sup>+</sup>
594? <sup>‡</sup>	69 15	1176?	(4 <sup>+</sup> )	582?	(2 <sup>+</sup> )
725? <sup>‡</sup>	62 14	1901?	(6 <sup>+</sup> )	1176?	(4 <sup>+</sup> )

<sup>†</sup> Energy uncertainties unstated by authors.

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



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Band(A): g.s. band?

