

$^{103}\text{Rh}(^{12}\text{C},\text{p}2\text{n}\gamma)$  1990ViZW

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev		NDS 124, 157 (2015)	1-Aug-2014

Beam: E( $^{12}\text{C}$ )=68 MeV from U-240 cyclotron; Target: 65 mg/cm<sup>2</sup> enriched in  $^{112}\text{Rh}$ ; Detectors: one HPGe; Measured: E $\gamma$ , DSAM; Deduced:  $^{112}\text{Sn}$  level scheme,  $\tau$ .  
 Other: 1981Gi13:  $^{112}\text{Sn}$  from  $^{106}\text{Cd}(^{12}\text{C},\alpha 2\text{p})$  channel.

 $^{112}\text{Sn}$  Levels

E(level) <sup>†</sup>	J <sup><math>\pi</math></sup> <sup>‡</sup>	T <sub>1/2</sub> <sup>†</sup>	Comments
0.0	0 <sup>+</sup>		
1256.9	2 <sup>+</sup>		
2520.8	4 <sup>+</sup>	0.42 ps 14	
2783.8	4 <sup>+</sup>	0.35 ps 14	
3414.0	6 <sup>+</sup>	0.6 ps 3	
3430.7	(8) <sup>-</sup>		
3693.8	(9) <sup>-</sup>	0.69 ps 14	T <sub>1/2</sub> : in disagreement with 47 ps 7 from the Adopted Levels.
4077.7	8 <sup>+</sup>	1.0 ps 4	
4582.3	(10) <sup>-</sup>	0.24 ps 7	
4819.5	10 <sup>+</sup>	0.14 ps 7	
5564.7	12 <sup>+</sup>	<1.4 ps	

<sup>†</sup> From 1990ViZW.

<sup>‡</sup> From the Adopted Levels.

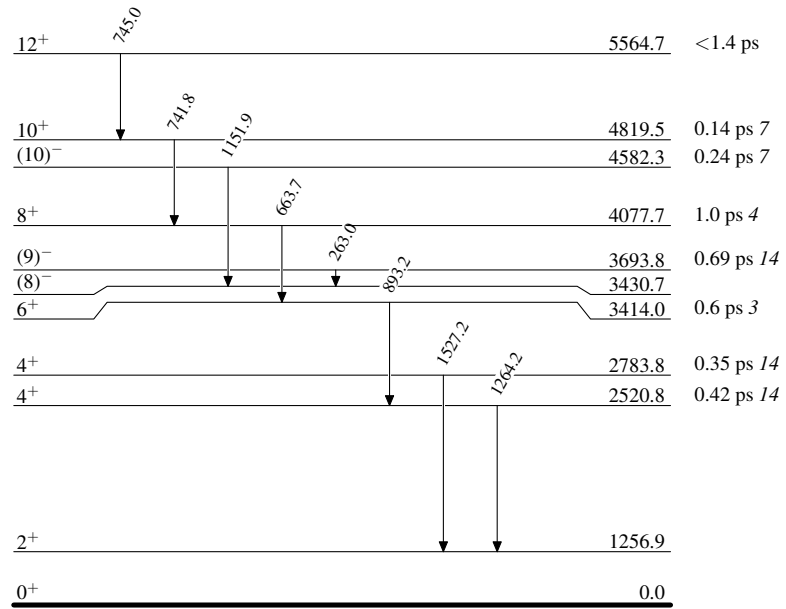
 $\gamma(^{112}\text{Sn})$ 

E $\gamma$ <sup>†</sup>	E <sub>i</sub> (level)	J <sub>i</sub> <sup><math>\pi</math></sup>	E <sub>f</sub>	J <sub>f</sub> <sup><math>\pi</math></sup>
263.0	3693.8	(9) <sup>-</sup>	3430.7	(8) <sup>-</sup>
663.7	4077.7	8 <sup>+</sup>	3414.0	6 <sup>+</sup>
741.8	4819.5	10 <sup>+</sup>	4077.7	8 <sup>+</sup>
745.0	5564.7	12 <sup>+</sup>	4819.5	10 <sup>+</sup>
893.2	3414.0	6 <sup>+</sup>	2520.8	4 <sup>+</sup>
1151.9	4582.3	(10) <sup>-</sup>	3430.7	(8) <sup>-</sup>
1264.2	2520.8	4 <sup>+</sup>	1256.9	2 <sup>+</sup>
1527.2	2783.8	4 <sup>+</sup>	1256.9	2 <sup>+</sup>

<sup>†</sup> From 1990ViZW.

$^{103}\text{Rh}(^{12}\text{C},\text{p}2\text{n}\gamma)$  1990ViZW

## Level Scheme

 $^{112}_{50}\text{Sn}_{62}$