

$^{92}\text{Mo}(^{78}\text{Kr}, 2n\gamma)$ 2009Go16

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

E=335 MeV; JUROGAM detector array (43 escape-suppressed spectrometers); RITU gas-filled separator; GREAT spectrometer (2 double-sided Si strip detectors, a planar Ge detector, a large-volume Ge clover detector, 28 Si PIN diode detectors); used recoil decay tagging technique to correlate prompt γ -rays with known α decay from ^{168}Pt ; measured prompt $E\gamma$, $I\gamma$, $\gamma\gamma$ coin, $E\alpha(^{168}\text{Pt})$.

 ^{168}Pt Levels

<u>E(level)[†]</u>	<u>J^π[‡]</u>
0.0 [#]	0 ⁺
581.40 [#] 10	(2 ⁺)
915.0? 9	
1112.9? 10	
1175.30? 23	
1307.3 [#] 12	(4 ⁺)
2033.2 [#] 17	(6 ⁺)

[†] From measured $E\gamma$.

[‡] Authors' recommended values.

[#] Band(A): Probable g.s. band.

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

<u>E_γ</u>	<u>I_γ</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>
^x 118.2 7	11 2					^x 652.1 2	35 3				
^x 150.6 4	11 2					^x 695.9 3	10 1				
197.9 [‡] 4	26 3	1112.9?		915.0?		^x 714.0 3	25 3				
^x 210.5 3	6 1					725.9 [†] 12	67 [†] 5	1307.3	(4 ⁺)	581.40	(2 ⁺)
^x 252.8 7	4 2					725.9 [†] 12	67 [†] 5	2033.2	(6 ⁺)	1307.3	(4 ⁺)
333.6 [‡] 9	51 9	915.0?		581.40	(2 ⁺)	^x 752.1 4	11 2				
^x 399.0 3	5 2					^x 798.2 3	17 2				
581.4 1	100 7	581.40	(2 ⁺)	0.0	0 ⁺	^x 902.9 5	30 3				
593.9 [‡] 2	76 6	1175.30?		581.40	(2 ⁺)	^x 1041.7 7	52 17				
^x 625.3 4	25 6										

[†] Multiply placed with undivided intensity.

[‡] Placement of transition in the level scheme is uncertain.

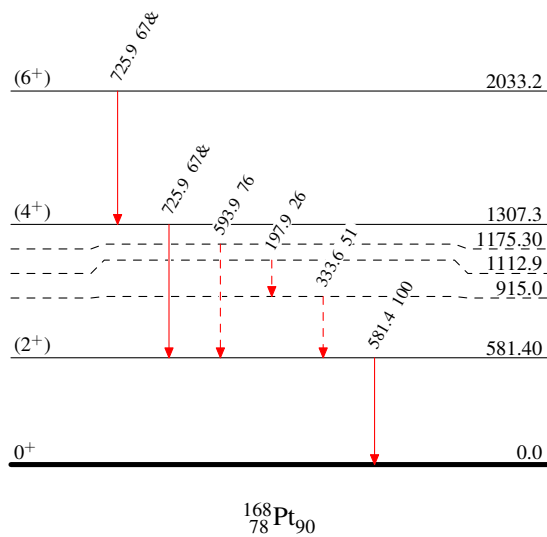
^x γ ray not placed in level scheme.

$^{92}\text{Mo}(^{78}\text{Kr}, 2n\gamma)$ 2009Go16Level Scheme

Intensities: Relative I_γ
& Multiply placed: undivided intensity given

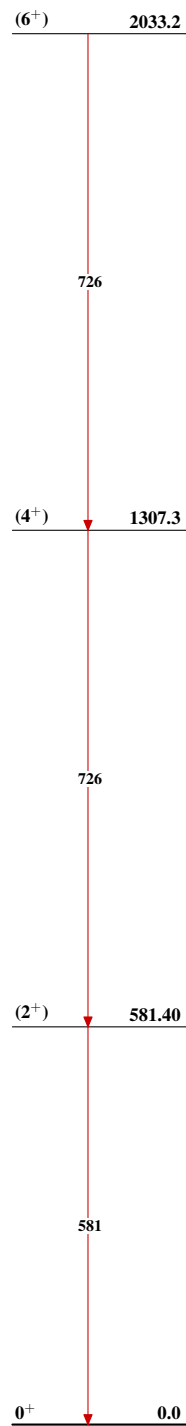
Legend

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



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**Band(A): Probable g.s.
band**



$^{168}_{78}\text{Pt}_{90}$