

$^{208}\text{Pb}(^{18}\text{O},\text{F}\gamma)$ 2002Ve08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 111, 1471 (2010)	1-May-2009

E=85 MeV. Measured E_γ , I_γ , $\gamma\gamma$ using the Euroball IV array comprised of 15 cluster Ge detectors, 26 clover Ge detectors and 30 tapered single-crystal Ge detectors.

^{113}Rh Levels

<u>E(level)[†]</u>	<u>J^π</u>	<u>E(level)[†]</u>	<u>J^π</u>	<u>E(level)[†]</u>	<u>J^π</u>	<u>E(level)[†]</u>	<u>J^π</u>
0 [‡]	(7/2 ⁺)	570.1 [@] 5	(11/2 ⁺)	1074.7 [‡] 5	(15/2 ⁺)	1410.8 [@] 10	(17/2 ⁺)
211.7 [#] 3	(9/2 ⁺)	683.7 [#] 4	(13/2 ⁺)	1282.7 [@] 8	(15/2 ⁺)	1773.7 [‡] 7	(19/2 ⁺)
443.4 [‡] 3	(11/2 ⁺)	935.1 [@] 6	(13/2 ⁺)	1319.3 [#] 5	(17/2 ⁺)	2036.9 [#] 10	(21/2 ⁺)

[†] From least-squares fit to E_γ 's.

[‡] Band(A): $\pi g_{9/2}$, $\alpha=-1/2$.

[#] Band(a): $\pi g_{9/2}$, $\alpha=+1/2$.

[@] Band(B): Band based on (11/2⁺).

$\gamma(^{113}\text{Rh})$

<u>E_γ</u>	<u>I_γ</u>	<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Comments</u>
211.6 3	100 15	211.7	(9/2 ⁺)	0	(7/2 ⁺)	
231.6 3	31 5	443.4	(11/2 ⁺)	211.7	(9/2 ⁺)	
240.3 3	40 5	683.7	(13/2 ⁺)	443.4	(11/2 ⁺)	
244.5 4	15 4	1319.3	(17/2 ⁺)	1074.7	(15/2 ⁺)	
347.5 5	10 3	1282.7	(15/2 ⁺)	935.1	(13/2 ⁺)	
358.4 4	26 5	570.1	(11/2 ⁺)	211.7	(9/2 ⁺)	
365.0 4	20 4	935.1	(13/2 ⁺)	570.1	(11/2 ⁺)	
390.9 4	20 4	1074.7	(15/2 ⁺)	683.7	(13/2 ⁺)	
443.5 4	25 6	443.4	(11/2 ⁺)	0	(7/2 ⁺)	
454.4 6	15 4	1773.7	(19/2 ⁺)	1319.3	(17/2 ⁺)	
472.1 4	29 5	683.7	(13/2 ⁺)	211.7	(9/2 ⁺)	
475.7 7	6 2	1410.8	(17/2 ⁺)	935.1	(13/2 ⁺)	
631.4 5	8 2	1074.7	(15/2 ⁺)	443.4	(11/2 ⁺)	
635.7 5	16 4	1319.3	(17/2 ⁺)	683.7	(13/2 ⁺)	
698.9 8	6 2	1773.7	(19/2 ⁺)	1074.7	(15/2 ⁺)	
713 [†]		1282.7	(15/2 ⁺)	570.1	(11/2 ⁺)	E_γ : from figure 4 of 2002Ve08.
717.6 8	6 2	2036.9	(21/2 ⁺)	1319.3	(17/2 ⁺)	

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

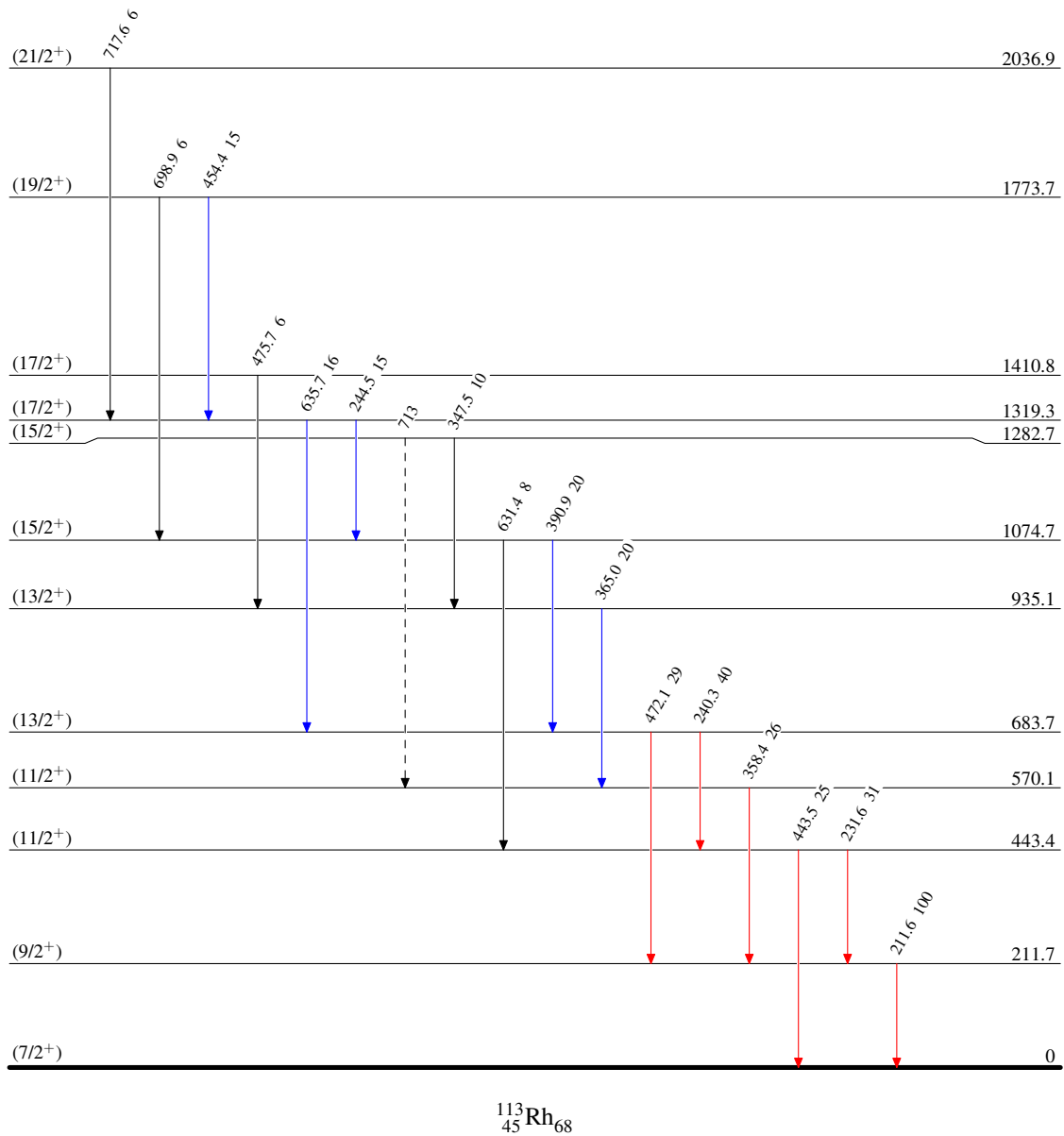
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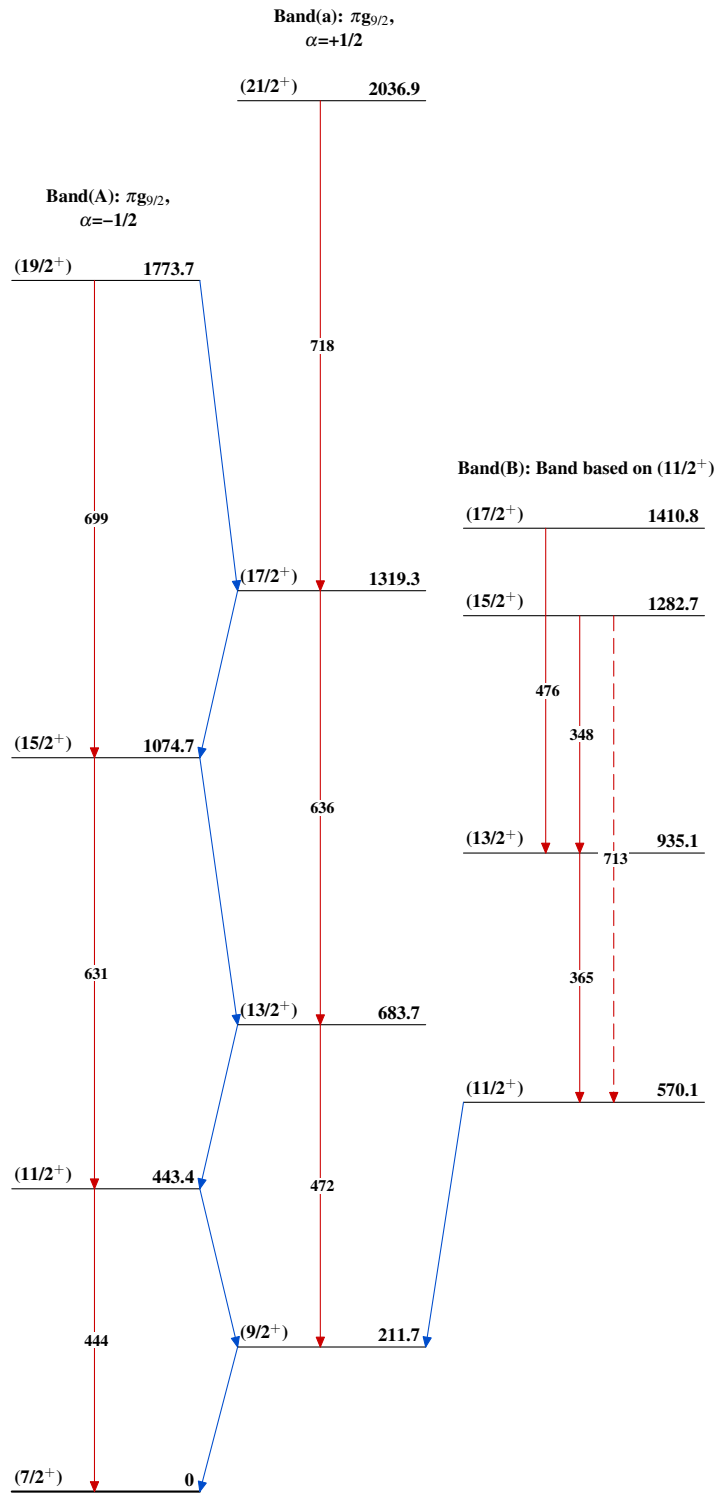
Level Scheme

Intensities: Relative I_γ

Legend

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



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