

$^{176}\text{Yb}(^{28}\text{Si},\text{X}\gamma)$ 2002Po11

History		Citation	Literature Cutoff Date
Type	Author		
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

E=145 MeV. Measured $E\gamma$, $I\gamma$, $\gamma\gamma$ using the Eurogam2 array comprised of 54 escape-suppressed Ge detectors.

 ^{108}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	1 ⁺	244.1+x [#] 3	(7 ⁻)	801.2+x [‡] 6	(10 ⁻)	1858.7+x [#] 7	(13 ⁻)
0+x	(5 ⁺)	306.9+x [‡] 5	(8 ⁻)	1084.4+x [#] 6	(11 ⁻)	2285.7+x [‡] 12	(14 ⁻)
142.5+x [‡] 2	(6 ⁻)	489.0+x [#] 6	(9 ⁻)	1467.0+x [‡] 6	(12 ⁻)		

[†] From least-squares fit to $E\gamma$'s.

[‡] Band(A): $\pi g_{9/2} \nu h_{11/2}$, $\alpha=0$.

[#] Band(a): $\pi g_{9/2} \nu h_{11/2}$, $\alpha=1$.

 $\gamma(^{108}\text{Rh})$

<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>
62.8 4	43 11	306.9+x	(8 ⁻)	244.1+x	(7 ⁻)	391.6 2	11 2	1858.7+x	(13 ⁻)	1467.0+x	(12 ⁻)
101.6 2	110 14	244.1+x	(7 ⁻)	142.5+x	(6 ⁻)	427 1	6 2	2285.7+x	(14 ⁻)	1858.7+x	(13 ⁻)
142.5 2	140 17	142.5+x	(6 ⁻)	0+x	(5 ⁺)	494 1	5 2	801.2+x	(10 ⁻)	306.9+x	(8 ⁻)
182.1 2	100 10	489.0+x	(9 ⁻)	306.9+x	(8 ⁻)	595.5 5	8 3	1084.4+x	(11 ⁻)	489.0+x	(9 ⁻)
283.2 2	33 6	1084.4+x	(11 ⁻)	801.2+x	(10 ⁻)	665.8 3	3 1	1467.0+x	(12 ⁻)	801.2+x	(10 ⁻)
312.2 2	67 10	801.2+x	(10 ⁻)	489.0+x	(9 ⁻)	774.6 5	7 2	1858.7+x	(13 ⁻)	1084.4+x	(11 ⁻)
382.6 2	22 4	1467.0+x	(12 ⁻)	1084.4+x	(11 ⁻)						

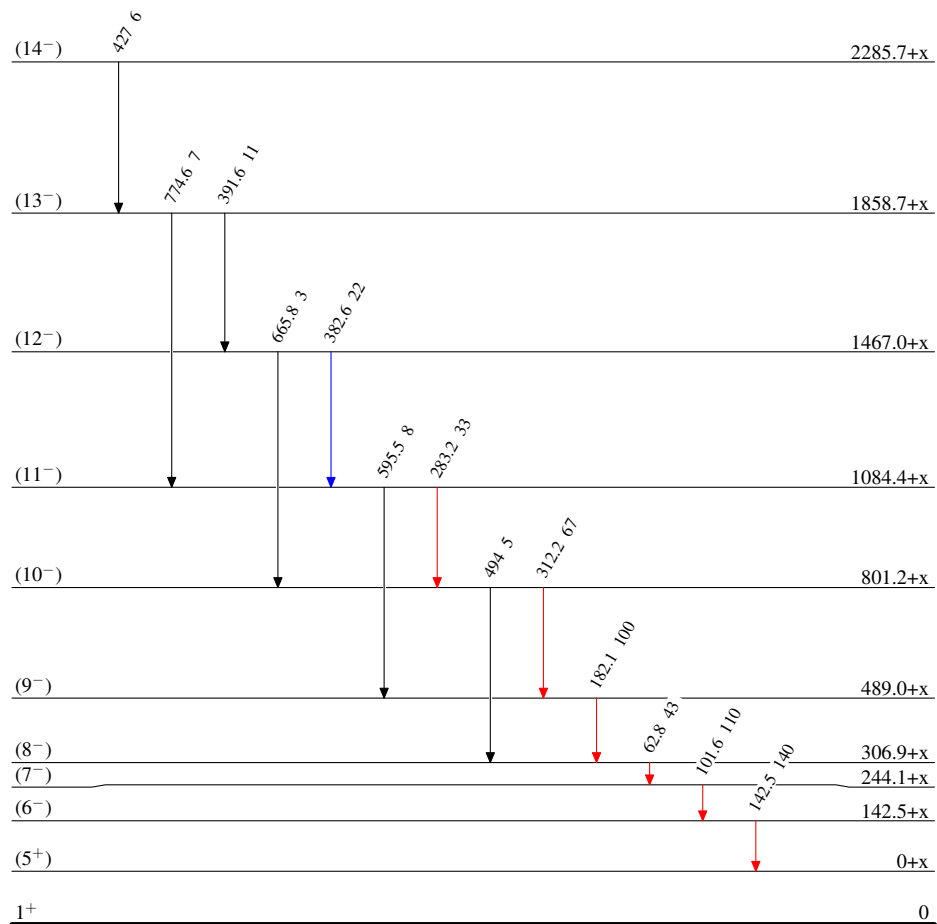
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Level Scheme

Intensities: Relative I_γ

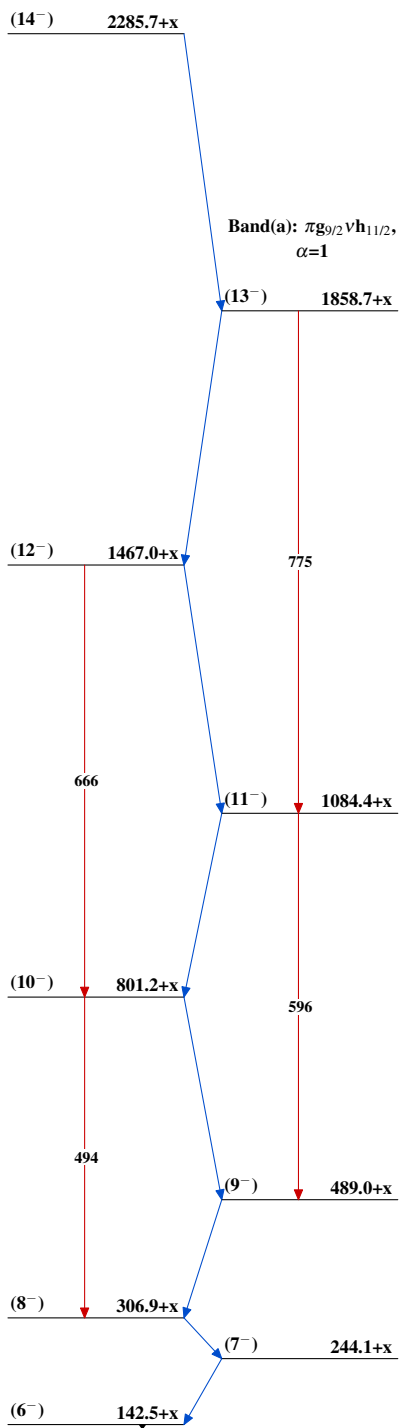
Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$

 $^{108}_{45}\text{Rh}_{63}$

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Band(A): $\pi g_{9/2} \nu h_{11/2}$,
 $\alpha=0$



$^{108}_{45}\text{Rh}_{63}$