

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

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev	NDS 113, 1315 (2012)		1-Aug-2011

Beam: ^{28}Si at E=145 MeV provided by the Vivitron accelerator. A 1.5mg/cm² ^{176}Yb target with a 15mg/cm² Au backing was used. γ -rays were detected using the Eurogam2 array comprised of 54 Compton-suppressed Ge detectors. Measured E_γ , I_γ , $\gamma\gamma$ coin.

 ^{110}Ag Levels

E(level) [‡]	J ^π [#]	Comments
0	1 ⁺ [†]	
1.112 16	2 ⁻ [†]	Additional information 1. E(level): from Adopted Levels.
117.59 5	6 ⁺ [†]	
242.09@ 21	(6 ⁻)	
242.09+x 21	(7 ⁻)	Additional information 2.
293.3+x@ 4	(8 ⁻)	Additional information 3.
484.40+x& 20	(9 ⁻)	
890.7+x@ 3	(10 ⁻)	
1229.8+x& 3	(11 ⁻)	
1707.2+x@ 4	(12 ⁻)	
2198.1+x& 4	(13 ⁻)	
2666.1+x@ 5	(14 ⁻)	

[†] From the Adopted Levels.

[‡] From a least-squares fit to E_γ .

[#] From 2002Po11, unless otherwise stated.

@ Band(A): $\pi g_{9/2} \nu h_{11/2}$, $\alpha=+1/2$.

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

 $\gamma(^{110}\text{Ag})$

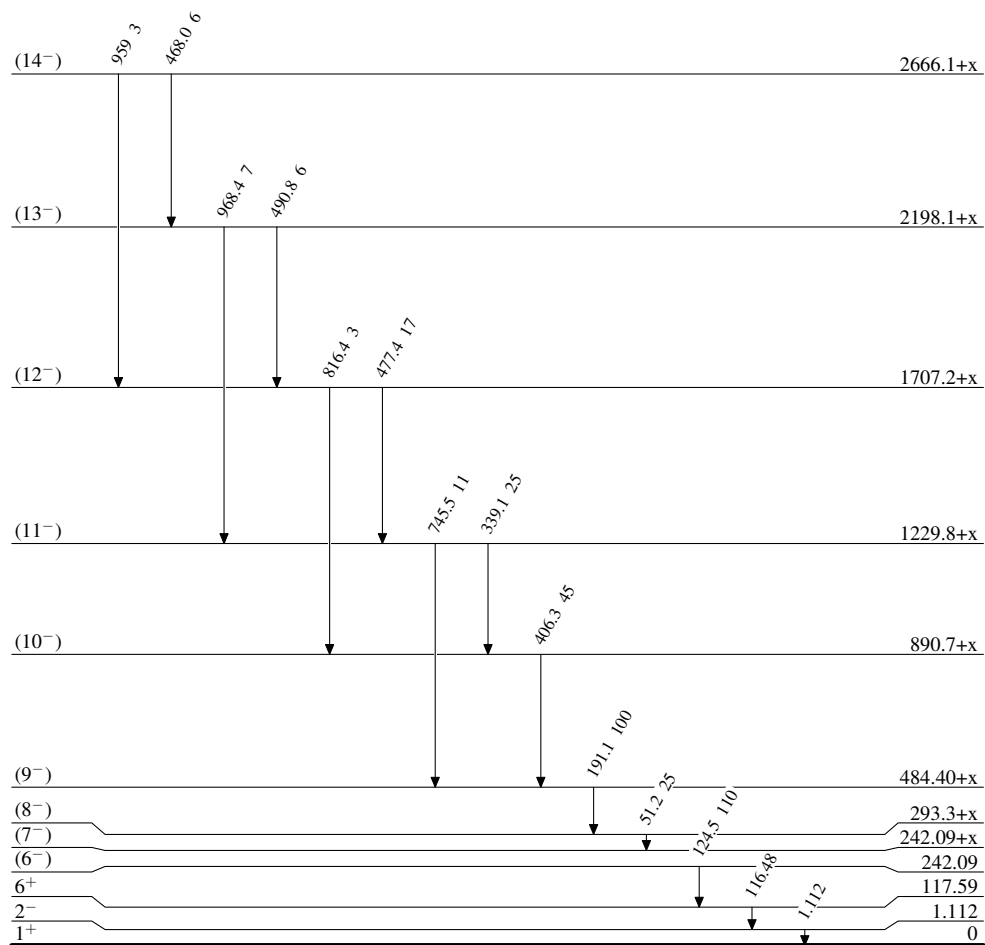
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Comments
1.112	2 ⁻	1.112 16		0	1 ⁺	E_γ : From adopted gammas.
117.59	6 ⁺	116.48 5		1.112	2 ⁻	E_γ : from adopted gammas.
242.09	(6 ⁻)	124.5 2	110 20	117.59	6 ⁺	
293.3+x	(8 ⁻)	51.2 4	25 8	242.09+x	(7 ⁻)	
484.40+x	(9 ⁻)	191.1 2	100 10	293.3+x	(8 ⁻)	
890.7+x	(10 ⁻)	406.3 2	45 5	484.40+x	(9 ⁻)	
1229.8+x	(11 ⁻)	339.1 2	25 3	890.7+x	(10 ⁻)	
		745.5 3	11 3	484.40+x	(9 ⁻)	
1707.2+x	(12 ⁻)	477.4 2	17 4	1229.8+x	(11 ⁻)	
		816.4 4	3 1	890.7+x	(10 ⁻)	
2198.1+x	(13 ⁻)	490.8 3	6 2	1707.2+x	(12 ⁻)	
		968.4 5	7 2	1229.8+x	(11 ⁻)	
2666.1+x	(14 ⁻)	468.0 3	6 2	2198.1+x	(13 ⁻)	
		959 1	3 1	1707.2+x	(12 ⁻)	

[†] From 2002Po11, unless otherwise stated.

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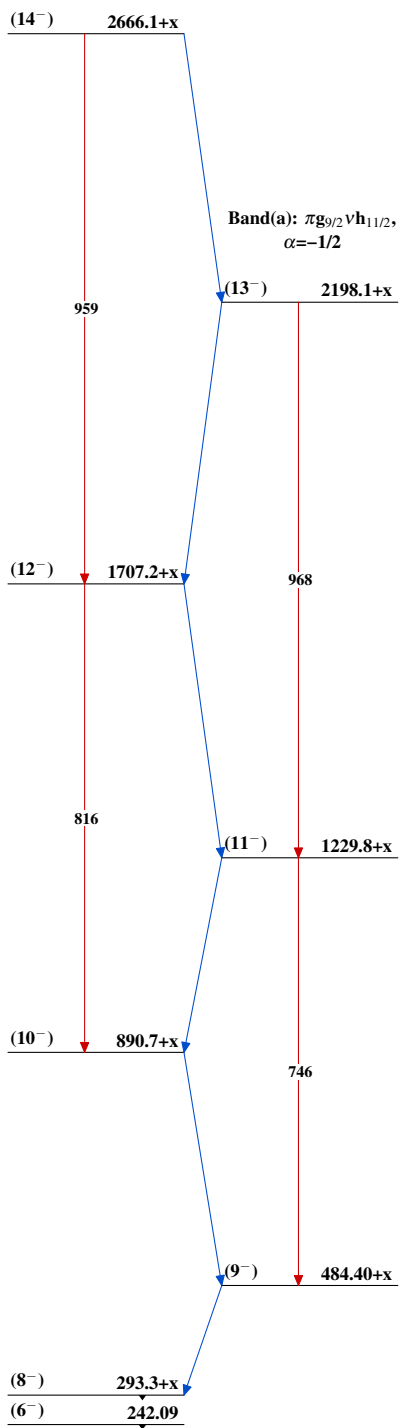
Level Scheme

Intensities: Relative photon branching from each level


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 $\alpha = +1/2$

 $^{110}_{47}\text{Ag}_{63}$