

$^{176}\text{Yb}(^{15}\text{N},4n\gamma)$ 2003Da34

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 110, 999 (2009)	1-Nov-2008

Target: ^{176}Yb ; Projectile: ^{15}N , E=82 MeV; Detector: YRAST Ball Spectrometer, consists of seven clover detectors, 16 single-crystal Ge, and 3 LEPs; Measured: E_γ , deduced level scheme.

 ^{187}Ir Levels

E(level) [†]	J^π [‡]	Comments
0.0	$3/2^{+ \#}$	
186	$9/2^{-}$	Additional information 1.
351.0 10	$13/2^{-}$	
676.0 13	$17/2^{-}$	
902.0 13	$15/2^{-}$	
1140.1 15	$21/2^{-}$	
1318.0 14	$19/2^{-}$	
1723.4 17	$25/2^{-}$	
1847.9 16	$23/2^{-}$	
2403.4 20	$29/2^{-}$	
2469.6 17	$(27/2^{-})$	
3154.4 22	$33/2^{-}$	
3159?	$(31/2^{-})$	
3936.4 25	$(37/2^{-})$	
4679 3	$(41/2^{-})$	
5497?	$(45/2^{-})$	

[†] From a least-squares adjustment to the γ -ray energies, assuming $\Delta E=1$ keV for all γ -rays. All levels are member of $\pi h9/2$ band.

[‡] Assumed by the authors as of rotational structure.

[#] From Adopted Levels.

 $\gamma(^{187}\text{Ir})$

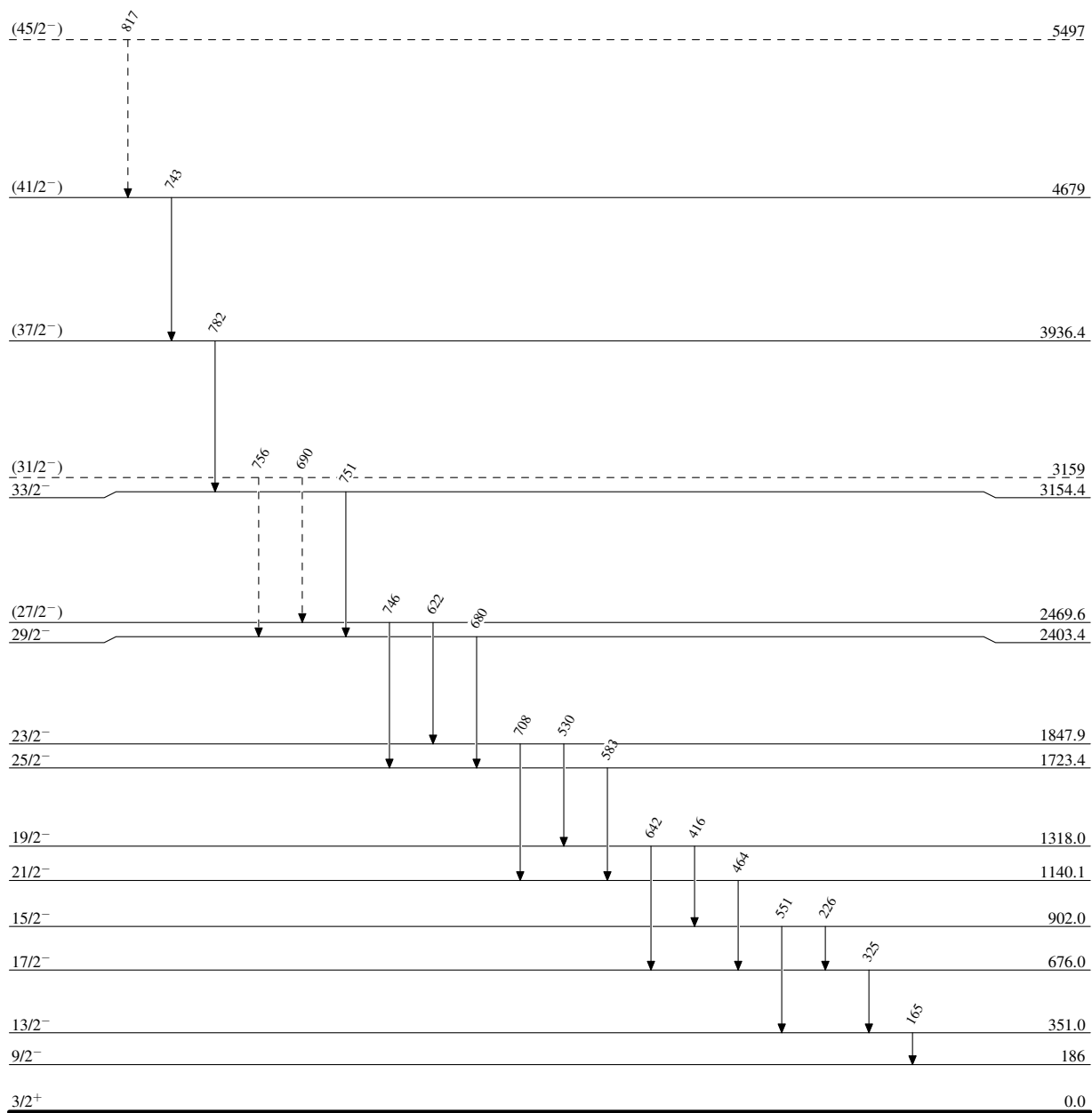
E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f	E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f
165	351.0	$13/2^{-}$	186	$9/2^{-}$	680	2403.4	$29/2^{-}$	1723.4	$25/2^{-}$
226	902.0	$15/2^{-}$	676.0	$17/2^{-}$	690 [†]	3159?	$(31/2^{-})$	2469.6	$(27/2^{-})$
325	676.0	$17/2^{-}$	351.0	$13/2^{-}$	708	1847.9	$23/2^{-}$	1140.1	$21/2^{-}$
416	1318.0	$19/2^{-}$	902.0	$15/2^{-}$	743	4679	$(41/2^{-})$	3936.4	$(37/2^{-})$
464	1140.1	$21/2^{-}$	676.0	$17/2^{-}$	746	2469.6	$(27/2^{-})$	1723.4	$25/2^{-}$
530	1847.9	$23/2^{-}$	1318.0	$19/2^{-}$	751	3154.4	$33/2^{-}$	2403.4	$29/2^{-}$
551	902.0	$15/2^{-}$	351.0	$13/2^{-}$	756 [†]	3159?	$(31/2^{-})$	2403.4	$29/2^{-}$
583	1723.4	$25/2^{-}$	1140.1	$21/2^{-}$	782	3936.4	$(37/2^{-})$	3154.4	$33/2^{-}$
622	2469.6	$(27/2^{-})$	1847.9	$23/2^{-}$	817 [†]	5497?	$(45/2^{-})$	4679	$(41/2^{-})$
642	1318.0	$19/2^{-}$	676.0	$17/2^{-}$					

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

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Legend

Level Scheme

-----► γ Decay (Uncertain)

 $^{187}_{77}\text{Ir}_{110}$