

$^{186}\text{W}(\text{n},4\text{p}21\text{n})$ 2000Ya22

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 195,1 (2024)	19-Sep-2023

Additional information 1.

$^{186}\text{W}(\text{n},4\text{p}21\text{n})$: spallation-neutron source, having neutron energies of several hundred MeV, at the WNR facility at LANSCE. A 12-g target of ^{186}W was used. γ radiation studied using four HPGe detectors in a close geometry. A wide variety of nuclides, including ^{162}Yb , was produced. Only the members of the g.s. band, from the 2^+ through the 10^+ levels, are reported. The γ transitions, their placement, and their E_γ values are given in the format of a level-scheme drawing only.

 ^{162}Yb Levels

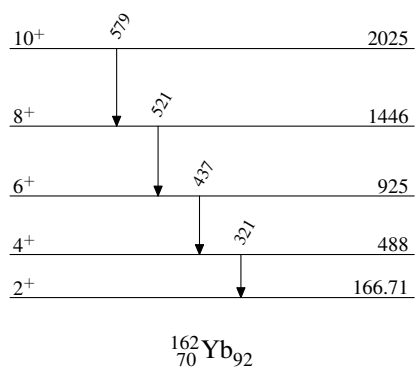
E(level)	J^π [†]	Comments
166.71 [‡]	2^+	E(level): from the Adopted Values. No deexciting γ is reported by 2000Ya22.
488 [‡]	4^+	
925 [‡]	6^+	
1446 [‡]	8^+	
2025 [‡]	10^+	

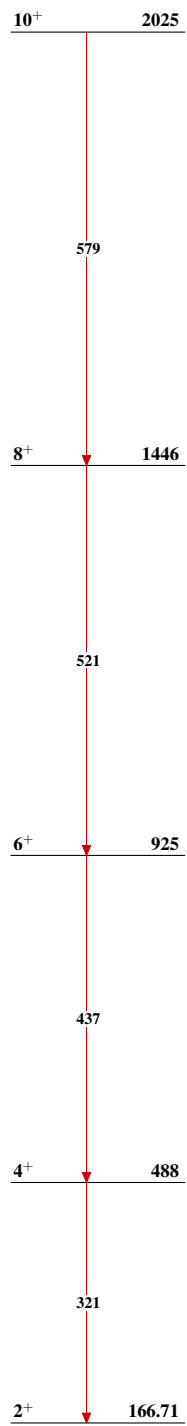
[†] From the Adopted Values.

[‡] Band(A): $K^\pi=0^+$ g.s. Band.

 $\gamma(^{162}\text{Yb})$

E_γ	$E_i(\text{level})$	J_i^π	E_f	J_f^π
321	488	4^+	166.71	2^+
437	925	6^+	488	4^+
521	1446	8^+	925	6^+
579	2025	10^+	1446	8^+

 $^{186}\text{W}(\text{n},4\text{p}21\text{n})$ 2000Ya22Level Scheme

$^{186}\text{W}(\text{N},4\text{p}21\text{n})$ 2000Ya22Band(A): $K^\pi=0^+$ g.s.
Band $^{162}_{70}\text{Yb}_{92}$