

$^{181}\text{Ta}(\pi^-, 5n\gamma)$ 1978Be24

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107, 791 (2006)	15-Sep-2005

Projectile: π^- , E=125 MeV. Measured E_γ , I_γ . Detectors: Ge(Li), Ge(Li) Compton-suppressed.

 ^{176}Hf Levels

E(level) [†]	J^π [‡]
0.0	0 ⁺
88.34 3	2 ⁺
290.17 5	4 ⁺
596.95 6	6 ⁺
997.94 7	8 ⁺
1481.27 9	(10) ⁺
2034.87 14	(12) ⁺
2646.8 4	(14) ⁺

[†] Deduced by evaluator from a least squares fit to the γ -ray energies.

[‡] From Adopted Levels.

 $\gamma(^{176}\text{Hf})$

E_γ [†]	I_γ [‡]	E_i (level)	J_i^π	E_f	J_f^π	Comments
(88.34 3)		88.34	2 ⁺	0.0	0 ⁺	γ ray not observed by authors.
201.83 3	5.4 18	290.17	4 ⁺	88.34	2 ⁺	
306.78 4	3.4 11	596.95	6 ⁺	290.17	4 ⁺	
400.99 4	1.84 10	997.94	8 ⁺	596.95	6 ⁺	
483.33 5	1.22 20	1481.27	(10) ⁺	997.94	8 ⁺	
553.6 1	0.78 13	2034.87	(12) ⁺	1481.27	(10) ⁺	
611.9 3	0.46 16	2646.8	(14) ⁺	2034.87	(12) ⁺	

[†] From adopted gammas. Authors did not report E_γ .

[‡] Intensity per 100 π^- captures.

$^{181}\text{Ta}(\pi^{-}, 5n\gamma)$ 1978Be24

Legend

Level Scheme

Intensities: I_{γ} per 100 π^{-} captures

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

