

$^{181}\text{Ta}(\pi^-, 9n\gamma)$ 1978Be24

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 75,199 (1995)	31-May-1995

E=125 MeV.

Muon channel, graphite degrader, metallic Ta plate, counter telescope Compton suppression Ge(Li) spectrometer.

 ^{172}Hf Levels

E(level) [‡]	J ^π [†]
0.0 [#]	0 ⁺
95.3 [#]	2 ⁺
309.3 [#]	4 ⁺
628.1 [#]	6 ⁺
1037.3 [#]	8 ⁺
1521.1 [#]	10 ⁺
2064.5 [#]	12 ⁺
2654.0 [#]	14 ⁺
3277.2 [#]	(16 ⁺)

[†] From Adopted Levels.[‡] Rounded off values from Adopted Levels.[#] Band(A): g.s. band. $\gamma(^{172}\text{Hf})$

E _γ [†]	I _γ [‡]	E _i (level)	J _i ^π	E _f	J _f ^π
95.3		95.3	2 ⁺	0.0	0 ⁺
214.1	0.122 13	309.3	4 ⁺	95.3	2 ⁺
318.8	0.059 3	628.1	6 ⁺	309.3	4 ⁺
409.2	0.028 10	1037.3	8 ⁺	628.1	6 ⁺
483.8	0.010 3	1521.1	10 ⁺	1037.3	8 ⁺
543.5	0.0062 13	2064.5	12 ⁺	1521.1	10 ⁺
589.4	0.0043 3	2654.0	14 ⁺	2064.5	12 ⁺
623.2 19		3277.2	(16 ⁺)	2654.0	14 ⁺

[†] Rounded off values from adopted gammas.[‡] Yield per captured pion. The normalization is obtained from the intensities of the pionic x-rays.

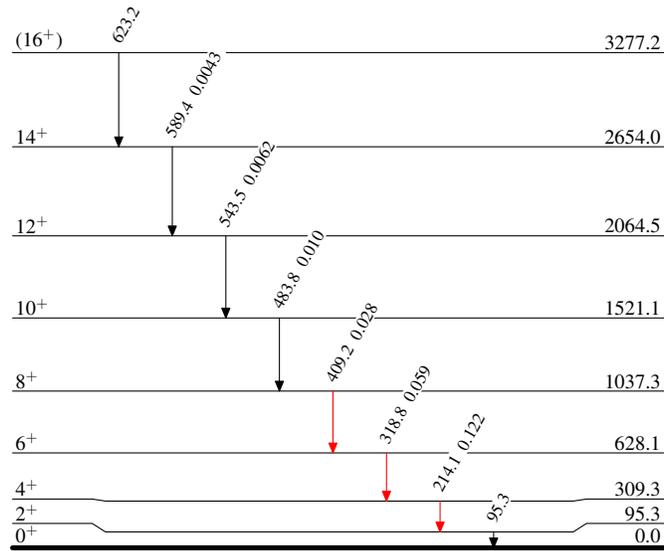
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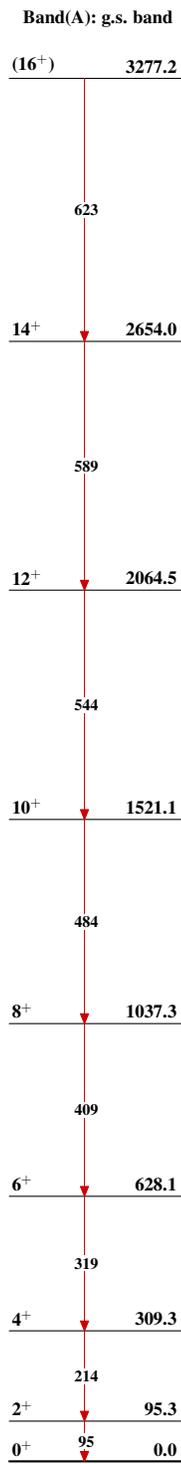
Level Scheme

Intensities: I_{γ} yield per captured pion

Legend

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

 ${}^{172}_{72}\text{Hf}_{100}$

${}^{181}\text{Ta}(\pi^{-}, 9n\gamma)$ 1978Be24 ${}^{172}_{72}\text{Hf}_{100}$