

$^{178}\text{Hf}(p,p')$ IAR 1972Se07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 110, 265 (2009)	15-Nov-2008

Target: 95% enriched ^{178}Hf . Projectile: protons, $E=11.2\text{-}12.6$ MeV. Measured excitation functions for proton scattering to g.s. and lowest 2^+ and 4^+ levels of ^{178}Hf ; $\theta(\text{lab})=90^\circ, 110^\circ, 150^\circ, 170^\circ$. Detector: semi, $\text{FWHM}\approx 30$ keV.

 ^{179}Ta Levels

E(level) [†]	L [‡]	Comments
S(p)+11666 10	1	Analog of the 421 ($J^\pi=3/2^-$) level in ^{179}Hf . $\Gamma=65$ keV, $\Gamma_p/\Gamma=0.028$.
S(p)+12100		Possible analog of ^{179}Hf (849 level).

[†] Proton resonance energy is in laboratory coordinates.

[‡] From elastic scattering $\sigma(\theta)$.