^{170}Yb(p,p) IAR 1970Wh05,1972Fo01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin, E. A. Mccutchan	NDS 151, 334 (2018)	30-Jun-2018

1972Fo01: E(p)=9.0-15 MeV; enriched oxide targets; measured E(resonance) (cooled Si, FWHM≤20 keV), p_0 excitation functions at 90°, 125°, 141°, 160°.
1970Wh05: E(p)≈10-13 MeV; >95% ^{170}Yb metallic targets; cooled Si(Li) detectors; measured excitation functions at 90°, 125°, 141°, 160° with 30-35 keV resolution.
Other: 1968Ca17.

^{171}Lu Levels

E(level)†	E(p)(lab)‡	Comments
14792 *14*	10500 *14*	E(p)(lab): weighted average of 10498 keV *20* (1970Wh05) and 10502 keV *20* (1972Fo01). Analog of $1/2^-$ 1/2[521] ^{171}Yb(g.s.). Γ=120 keV *30*, Γ_p=7 keV *2* (1972Fo01). Other data: Γ=44 keV *9*, Γ_p/Γ=0.059 *9* (1970Wh05), measured in poorer resolution study than that of 1972Fo01.
15757 *20*	11470 *20*	E(p)(lab): from 1972Fo01. Analog of 992-keV $3/2^-$ 1/2[510] level in ^{171}Yb. Γ=130 keV *30*, Γ_p=6 keV *2* (1972Fo01).

† Resonance energy (c.m.) from measured E(p)(res) and S(p)=4353.5 *19* (2017Wa10).
‡ E(p)(lab) for resonance in ^{171}Lu.