^{170}**Yb(t,p)** **1983Bu03**

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

E=15 MeV.

Enriched (75.0%) target. Measured $\sigma(\theta)$ (θ=7.5°- 67.5°) in steps of 7.5°. Magnetic spectrometer, FWHM≈15 keV. Uncertainties on cross sections≈10%. DWBA calculations.

Theoretical work: 1973Ab06, 1971Ud01, 1969Br18.

^{172}Yb Levels

E(level)[†]	L[‡]	dσ/dΩ (30°) In μb/sr	Comments
0	0	302	
78 3		39	L: $\sigma(\theta)$ shape deviates from L=2 predicted by DWBA calculations. The discrepancy has been interpreted as due to multistep processes.
260 3		15	
1043 3	0	43	
1118 3		≤3	
1263 3		13	
1287 3		≈3	
1466 3	2	7	
1654 5		9	
1823 5		15	
1853 5		5	
2046 5			
2177 5		8	
2228 5	2	10	
2466 5			

[†] Uncertainty≈3 keV for levels below 1.5 MeV, and≈5 keV for levels above this energy.

[‡] From comparison of experimental $\sigma(\theta)$ with DWBA calculations.