^{174}**Yb(t,p)**　　**1983Bu03**

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

Target: 95.8% enriched ^{174}Yb. Projectile: t, E=15 MeV. Detector: magnetic spectrograph, FWHM≈15 keV. Measured angular distributions of scattered protons at θ=7.5° to 67.5° in steps of 7.5°.

^{176}Yb Levels

E(level)‡	L†	S$^{#}$	Comments
0.0	0	1.0	dσ/dΩ (μb/sr)=219 at 30°.
82			dσ/dΩ (μb/sr)=27 at 30°.
272			dσ/dΩ (μb/sr)=19 at 30°.
1141			
1261			
1338			dσ/dΩ (μb/sr)=22 at 30°.
1437			dσ/dΩ (μb/sr)=20 at 30°.
≈1520			dσ/dΩ (μb/sr)=11 at 30°.
1738			dσ/dΩ (μb/sr)=13 at 30°.
1779	0	0.34	dσ/dΩ (μb/sr)=65 at 30°.
≈2060			dσ/dΩ (μb/sr)≤6 at 30°.
2302			dσ/dΩ (μb/sr)=27 at 30°.

† From comparison of experimental angular distributions with theoretical DWBA calculations. L=0 transfers have a distinctive oscillatory pattern which gives a firm identification.

‡ ΔE≈3 keV for strongly populated levels with E≤1500 keV, ΔE≈6 keV for higher level energies.

$^{#}$ L=0 strength relative to 1 for the ground state.