^{176}Yb(p,p′) 1980Ba30,1979Ki14,1973Oo01

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

1980Ba30: target: 96.43% enriched ^{176}Yb. Projectiles: protons, E=800 MeV. Measured angular distributions of scattered protons from θ=4.5° to 21° in 0.1° steps. Detector: magnetic spectrometer, FWHM≈50 keV. Deduced deformation parameters for the g.s. rotational band using coupled-channel calculations (β_2=0.330, β_4=−0.045). Calculated DWBA cross sections agree poorly with experimental values.

1979Ki14: target: 97% enriched ^{176}Yb. Projectiles: protons, E=35 MeV. Measured angular distributions of scattered protons from θ=20° to 120° in 5° steps. Detector: magnetic spectrometer, FWHM=7 keV. Deduced deformation parameters for the g.s. rotational band (β_2=0.275 *4*, β_4=−0.055 *4*).

1973Oo01: projectiles: protons, E=19 MeV. Measured angular distributions of scattered protons from θ≈30° to≈120°. Detector: magnetic spectrometer, FWHM≈11 keV.

Others: 1971Kr10 – projectiles: protons, E=16 MeV. Measured angular distributions of scattered protons from θ=50° to 165° in 5° steps. Detector: semi, FWHM=40 keV. Deduced deformation parameters for the g.s. rotational band (β_2=0.316, using DWBA calculations; β_2=0.275, using coupled-channel calculations). Others: 1987Zh14, 1989Zh11.

^{176}Yb Levels

Levels above 955 keV are from a proton spectrum measured at θ=80° presented in a figure by 1979Ki14.

E(level)[†]	Jπ[‡]
0.0[#]	0^+
82[#]	2^+
272[#]	4^+
565[#]	6^+
955[#]	8^+

† From 1979Ki14.
‡ From Adopted Levels.
# Band(A): K=0^+ g.s. rotational band.

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Band(A): K=0$^+$ g.s. rotational band

8$^+$ 955

6$^+$ 565

4$^+$ 272

2$^+$ 82

0$^+$ 0.0

$^{176}_{70}Yb_{106}$