^{68}Zn(e,e′) 1973Li24,1976Ne06,1977Ne05

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan	NDS 113, 1735 (2012)	1-Mar-2012

Data are mainly from 1976Ne06 and 1977Ne05.
1977Ne05: E(e)=100-275 MeV. Measured σ(E,θ) for θ=40°−100°, FWHM=150 keV; deduced B(E2).
1976Ne06: E(e)=40-112 MeV. Measured σ(E,θ) for θ=58°,111°, and 128°; deduced B(E2) and B(E3).
1973Li24: E(e)=225 MeV. Measured σ(θ); deduced B(E2) and B(E3).
B(E2) values for the 2^+ states were obtained from Fourier-Bessel analysis and are model-independent (1977Ne05). The B(E3) has been derived from the modified Tassie model with a two-parameter Fermi charge distribution for the g.s. (1976Ne06). Other B(E2) and B(E3) measurements: 1973Li24.
Others: 1981Ko06,1980Wo02,1972Ne01.

^{68}Zn Levels

E(level)†	J$^\pi$†	$T_{1/2}$	Comments
0	0^+		
1077	2^+	1.48 ps *8*	Q=−0.106 *16* (1981Ko06); B(E2)↑=0.132 *7* (1977Ne05) B(E2): value of 1977Ne05 supersedes authors′ earlier work (1976Ne06). Other: 0.108 *14* (1973Li24). Q: data of 1977Ne05 analyzed by 1981Ko06 to extract quadrupole moment of 1077 level using a model independent method based on energy-weighted sum rule. $T_{1/2}$: deduced from B(E2) and adopted γ-ray properties.
1883	2^+	1.53 ps *+28−20*	B(E2)↑=0.0046 *7* (1977Ne05) $T_{1/2}$: deduced from B(E2) and adopted γ-ray properties.
2751	3^-		B(E3)↑=0.0235 *17* (1973Li24) B(E3): other: 0.038 *8* (1976Ne06).

† From the Adopted Levels.