^{66}Zn(e,e′) 1977Ne05,1976Ne06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, J. K. Tuli	NDS 111, 1093 (2010)	3-Mar-2009

1977Ne05: E=100-275 MeV, FWHM=0.1%; σ(E,θ), θ=40°−100 ‘; DWBA analysis.
1976Ne06: E=60-112 MeV, FWHM=0.1%; σ(E,θ), θ=58°, 111 ‘, 128°; DWBA analysis.
1981Ko06: Q deduced by model-independent analysis of data from 1977Ne05.
Other: 1970Af04, 1970Af03, 1972Li26, 1972Ne01, 1974WoZM.
B(E2) values were obtained from Fourier-Bessel analysis and are model-independent (1977Ne05).
B(E3) value has been derived from the modified Tassie model with two-parameter Fermi charge distribution for the g.s. (1976Ne06).

^{66}Zn Levels

E(level)†	J$^{\pi}$‡	$T_{1/2}$	Comments
0	0^+		
1039	2^+	1.66 ps *10*	B(E2)↑=0.141 *8* (1977Ne05); Q=−8.1 *13* (1981Ko06) $T_{1/2}$: from B(E2).
1873	2^+		B(E2)↑=0.00045 *7* (1977Ne05) B(E2): inconsistent with adopted $T_{1/2}$=0.19 ps *7* and upper limit on branching ratio of g.s. transition (branching<0.23%) which gives B(E2)<1.5×10^{-4}.
2827	3^-		B(E3)↑=0.042 *9* (1976Ne06)

† Rounded values from Adopted Levels.
‡ From Adopted Levels.