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^{110}Cd(e,e′)   **1991We15,1990We08,1977Gi13**

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History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. Gürdal and F. G. Kondev	NDS 113, 1315 (2012)	1-Aug-2011

1991We15,1990We08: The experiments were performed at NIKHEF. The electrons were accelerated to 70-440 MeV with the medium-energy accelerator (MEA) facility. ≈15 mg/cm^2 thick, 96% enriched, self-supporting metallic foil of ^{110}Cd target was used. The scattered electrons were analyzed with the QDD spectrometer, at angles from 34° to 87° to cover an effective momentum transfer range of 0.3-2.55 fm^{-1}. Optimal resolution was 11 keV for the low-energy data. Measured: Form factors. Deduced: ^{110}Cd levels, B(E2), B(E4).

1977Gi13: The Glasgow 130 MeV electron linear accelerator was used to accelerate electrons at 68 and 112 MeV. 30 mg/cm^2 thick, %91 enriched, self-supporting metallic foil of ^{110}Cd target was used. The differential cross sections were measured in the angular range between θ=64°−148° yielding momentum transfer in the range of 0.37 to 1.09 fm^{-1}. The overall experimental resolution was 0.15% FWHM of the incident electron energy (i.e 150 keV at 100 MeV). Measured: σ(E,θ). Deduced: B(E2), Q.

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^{110}Cd Levels

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B(E2), B(E4): from 1991We15, unless otherwise stated.

E(level)[†]	J$^\pi$[†]	Comments
0.0	0$^+$	
657.7645 *20*	2$^+$	B(E2)↑: 0.45 *4* (1991We15), 0.454 *43* (1977Gi13).
		Q: −0.40 *4*.
		Q: Deduced from fits to the inelastic electron scattering cross sections within the framework of the anharmonic vibrational model in 1977Gi13.
1475.800 *3*	2$^+$	B(E2)↑=0.014 *3*
1542.434 *13*	4$^+$	B(E4)↑=0.5×10^{-3} *5*
1783.484 *18*	2$^+$	B(E2)↑=0.005 *3* (1990We08)
1809.48 *9*	4$^+$	B(E4)↑=2.8×10^{-3} *11*
2220.078 *3*	4$^+$	B(E4)↑=6.5×10^{-3} *21*
2250.551 *11*	4$^+$	B(E4)↑=6.2×10^{-3} *16*
2561.316 *10*	4$^+$	B(E4)↑=3.4×10^{-3} *15*

[†] From Adopted Levels.