$^{108}\text{Pd}(e,e')$ **1978Ar07**

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

(e,e′): E=72, 115, 121 MeV, θ=48° to 140°, FWHM≈0.15%.
(e,e): E=21− 121 MeV, θ=140°, FWHM≈0.15%.

^{108}Pd Levels

E(level)	$J^{\pi \dagger}$	$T_{1/2}$	Comments
0	0^+		Charge distribution parameters: half-density radius= 5.227 fm *19*, surface thickness= 2.545 fm *29*, rms radius= 4.585 fm *9*.
434	2^+	22.6 ps *8*	β_2=0.245 *4*; Q=−0.58 *4*; B(E2)↑=0.805 *29*
			B(E2)↑: deduced from anharmonic model fit to form factor.
			Q: deduced from matrix elements extracted from an anharmonic analysis of form factor.
			$T_{1/2}$: from B(E2) and α=0.0089.
931	2^+	6.1 ps *4*	β_2=0.245 *4*; B(E2)↑=0.0058 *10*
			B(E2)↑: B(E2)(931-434)/B(E2)(434-g.s.)= 1.37 *7*.
			$T_{1/2}$: from B(E2)(931-434)/B(E2)(434-g.s.), with B(E2)(434-g.s.) of 1978Ar07 and %Iγ(497γ)=80.2 *2*, δ(497γ)=− 3.1 *4*.
			B(E2)↑: deduced from anharmonic model fit. Authors point out that the 2^+ form factor is not defined over a wide enough momentum transfer range to reliably extract B(E2) (B(E2)= 0.0170 *14* from Coulomb excitation).
2046	3^-		β_3=0.161 *11*; B(E3)↑=0.113 *15*

† From Adopted Levels.