

¹⁰⁹Ag(p,2nγ) **1992Ku01**

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

E(p)= 12.7 MeV, enriched target 99%.

Measured γ, γγ, γ(θ), two Compton suppressed Ge detectors, excitation functions between 12.3 and 17.4 MeV. Five angles between 90° and 158°.

Others: 1964Sa13, 1965Ej01, 1966Ej02, 1966Ej03; measured ce(K), K/L+M ratio, and I_γ(180°)/I_γ(90°).

Measured γ, pγ coin, ce electron spectrometer.

¹⁰⁸Cd Levels

E(level)	J ^π	T _{1/2}	E(level)	J ^π	E(level)	J ^π
0	0 ⁺	stable	1721.0 3	0 ⁺	2201.9 3	3 ⁻
632.9 3	2 ⁺		1913.3 3	0 ⁺	2239.2 3	4 ⁺
1508.3 3	4 ⁺		2145.6 3	3 ⁺	2365.7 3	2 ⁺
1601.7 3	2 ⁺		2162.5 3	2 ⁺	2374.7 3	(0 ⁺)
					2486.0 3	2 ⁺

γ(¹⁰⁸Cd)

E _γ	I _γ [‡]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [†]	δ	Comments
311.3 3	4 1	1913.3	0 ⁺	1601.7 2 ⁺	2 ⁺	E2		
544.2 3	6.0	2145.6	3 ⁺	1601.7 2 ⁺	2 ⁺	M1+E2	-1.22 12	Mult.: δ from (n,n'γ) and Adopted Levels, Gammas.
600.2 3	3.0	2201.9	3 ⁻	1601.7 2 ⁺	2 ⁺			
632.9 3	1000	632.9	2 ⁺	0 0 ⁺	0 ⁺	E2		
637.3 3	4 1	2145.6	3 ⁺	1508.3 4 ⁺	4 ⁺			
637.5 3	3.1	2239.2	4 ⁺	1601.7 2 ⁺	2 ⁺			
730.9 3	27	2239.2	4 ⁺	1508.3 4 ⁺	4 ⁺	M1+E2	-0.43 2	Mult.: δ from (n,n'γ) and Adopted Levels, Gammas.
772.7 3	1.0	2374.7	(0 ⁺)	1601.7 2 ⁺	2 ⁺	(E2) [#]		
875.4 3	343	1508.3	4 ⁺	632.9 2 ⁺	2 ⁺	E2		
884.5 3	2.7	2486.0	2 ⁺	1601.7 2 ⁺	2 ⁺			
969.1 3	68	1601.7	2 ⁺	632.9 2 ⁺	2 ⁺	M1,E2		
1088.1 3	15	1721.0	0 ⁺	632.9 2 ⁺	2 ⁺	E2		
1280.6 3	5 1	1913.3	0 ⁺	632.9 2 ⁺	2 ⁺	E2		
1512.7 3	48	2145.6	3 ⁺	632.9 2 ⁺	2 ⁺	M1+E2	-1.84 3	Mult.: δ from (n,n'γ) and Adopted Levels, Gammas.
1529.6 1	30	2162.5	2 ⁺	632.9 2 ⁺	2 ⁺	M1+E2	+0.13 2	Mult.: δ from (n,n'γ) and Adopted Levels, Gammas.
1569.0 3	62	2201.9	3 ⁻	632.9 2 ⁺	2 ⁺	E1		
1601.7 3	62	1601.7	2 ⁺	0 0 ⁺	0 ⁺	E2		
1606.3 3	23	2239.2	4 ⁺	632.9 2 ⁺	2 ⁺	E2		
1732.8 3	17	2365.7	2 ⁺	632.9 2 ⁺	2 ⁺	M1+E2	-0.151 14	Mult.: δ from (n,n'γ) and Adopted Levels, Gammas.
1741.8 3	5.4	2374.7	(0 ⁺)	632.9 2 ⁺	2 ⁺	(E2)		
1853.2 3	15	2486.0	2 ⁺	632.9 2 ⁺	2 ⁺	E2+M1	-0.61 3	Mult.: δ from (n,n'γ) and Adopted Levels, Gammas.
2162.5 3	1.7	2162.5	2 ⁺	0 0 ⁺	0 ⁺	E2		
2365.7 3	2.7	2365.7	2 ⁺	0 0 ⁺	0 ⁺	E2		
2486.0 3		2486.0	2 ⁺	0 0 ⁺	0 ⁺			

[†] From γ(θ) determined here, and α(K)exp from authors' decay and (p,p'γ) works.

[‡] Intensity error typically 15%.

[#] From α(K)exp only.

