

¹⁰⁷Ag(p,2nγ) **1992Ku01**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. De Frenne and A. Negret		NDS 109, 943 (2008)	1-May-2007

E(p)=12.7 MeV, 14.5 MeV. Measured: E_γ, I_γ, γγ, γ(θ), γ ray excitation functions, ce(K). Deduced: ¹⁰⁶Cd levels, J^π, α(K)exp, mult., δ.

¹⁰⁶Cd Levels

E(level)	J ^π †	E(level)	J ^π †	E(level)	J ^π †	E(level)	J ^π †
0.0	0 ⁺	1795.3	0 ⁺	2254.0 5	(2 ⁺ ,3 ⁺)	2370.6	(2) ⁺
632.6	2 ⁺	2104.6	4 ⁺	2305.1	4 ⁺	2378.6	3 ⁻
1493.8 3	4 ⁺	2143.9 3	0 ⁺	2330.5	5 ⁺		
1716.6	2 ⁺	2252.2 6	(4 ⁺)	2347.3			

† From α(K)exp, γ(θ).

γ(¹⁰⁶Cd)

E _γ †	I _γ ‡	E _i (level)	J _i ^π	E _f	J _f ^π	E _γ †	I _γ ‡	E _i (level)	J _i ^π	E _f	J _f ^π
225.9 3	31 5	2330.5	5 ⁺	2104.6	4 ⁺	1084.0 3	43 7	1716.6	2 ⁺	632.6	2 ⁺
388.0 3	2.5 4	2104.6	4 ⁺	1716.6	2 ⁺	1162.7 3	14 2	1795.3	0 ⁺	632.6	2 ⁺
427.2 3	3.9 6	2143.9	0 ⁺	1716.6	2 ⁺	1472.0 3	37 6	2104.6	4 ⁺	632.6	2 ⁺
536.2 3	2.2 4	2254.0	(2 ⁺ ,3 ⁺)	1716.6	2 ⁺	1511.4 3	7.3 11	2143.9	0 ⁺	632.6	2 ⁺
575.3 3	1.8 3	2370.6	(2) ⁺	1795.3	0 ⁺	1619.6 6	44 7	2252.2	(4 ⁺)	632.6	2 ⁺
610.7 3	65 11	2104.6	4 ⁺	1493.8	4 ⁺	1621.4 4	15 3	2254.0	(2 ⁺ ,3 ⁺)	632.6	2 ⁺
632.6 3	1000	632.6	2 ⁺	0.0	0 ⁺	1672.6 3	3.7 6	2305.1	4 ⁺	632.6	2 ⁺
653.9 3	2.6 4	2370.6	(2) ⁺	1716.6	2 ⁺	1714.7 3	24 [#] 6	2347.3		632.6	2 ⁺
758.8 3	2.3 4	2252.2	(4 ⁺)	1493.8	4 ⁺	1716.6 3	47 [#] 7	1716.6	2 ⁺	0.0	0 ⁺
811.2 3	28 5	2305.1	4 ⁺	1493.8	4 ⁺	1738.0 3	8.2 12	2370.6	(2) ⁺	632.6	2 ⁺
836.8 3	22 4	2330.5	5 ⁺	1493.8	4 ⁺	1746.0 3	43 7	2378.6	3 ⁻	632.6	2 ⁺
861.2 3	390 60	1493.8	4 ⁺	632.6	2 ⁺	2370.6 3	1.00 15	2370.6	(2) ⁺	0.0	0 ⁺

† Authors quote only a single set of E_γ values for (p,p'γ) and (p,2nγ) experiments.

‡ Ge detector at 90° with respect to proton beam. E(p)=14.5 MeV.




From γγ.

$^{107}\text{Ag}(p,2n\gamma)$ 1992Ku01

Level Scheme

Intensities: Type not specified

Legend

-  $I_\gamma < 2\% \times I_\gamma^{\text{max}}$
-  $I_\gamma < 10\% \times I_\gamma^{\text{max}}$
-  $I_\gamma > 10\% \times I_\gamma^{\text{max}}$

