

⁹⁴Ag ε decay: (7⁺)+(21⁺) 2004P101,2002La18

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 107, 2423 (2006)	1-Jan-2006

Parent: ⁹⁴Ag: E=6670 SY; J^π=(21⁺); T_{1/2}=0.40 s 4; Q(ε)=13050 SY; %ε+%β⁺ decay=?

Parent: ⁹⁴Ag: E=0.0+x; J^π=(7⁺); T_{1/2}=0.55 s 6; Q(ε)=13050 SY; %ε+%β⁺ decay=?

⁵⁸Ni(⁴⁰Ca,p3n) E=4.8 MeV/A Measured E_γ, γγ-coin, βγγ-coin and T_{1/2}. Reaction products separated using ion source.

⁹⁴Pd Levels

E(level)	J ^π ‡	T _{1/2}	E(level)	J ^π ‡	E(level)	J ^π ‡	T _{1/2}
0 [†]	0 ⁺	9.0 [‡] s 5	2702.13 [†] 20	(8 ⁺)	4883.1 [†] 4	(14 ⁺)	0.53 μs 1
813.80 [†] 10	2 ⁺		3049.13 22	(8 ⁺)	5291.3 4	(15 ⁺)	
1719.11 [†] 14	(4 ⁺)		3064.3 3	(6 ⁺)	5558.9 5	(16 ⁺)	
2378.13 [†] 17	(6 ⁺)		3794.04 [†] 22	(10 ⁺)	7103.5 5	(18 ⁺)	
2697.60 17	(6 ⁺)		4787.5 [†] 3	(12 ⁺)	7700.2 6	(20 ⁺)	

[†] Band(A): Yrast band.

[‡] From Adopted Levels.

γ(⁹⁴Pd)

E _γ	I _γ [†]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult.
95.6 2	11.4 2	4883.1	(14 ⁺)	4787.5	(12 ⁺)	E2 [‡]
267.6 2	10.5 9	5558.9	(16 ⁺)	5291.3	(15 ⁺)	
319.8 [#] 2	≤4	2697.60	(6 ⁺)	2378.13	(6 ⁺)	
324.0 1	43.8 12	2702.13	(8 ⁺)	2378.13	(6 ⁺)	
347.0 1	6.8 6	3049.13	(8 ⁺)	2702.13	(8 ⁺)	
408.2 2	12.6 12	5291.3	(15 ⁺)	4883.1	(14 ⁺)	
596.7 3	12.1 10	7700.2	(20 ⁺)	7103.5	(18 ⁺)	
659.1 1	50.7 13	2378.13	(6 ⁺)	1719.11	(4 ⁺)	
686.2 2	4.0 6	3064.3	(6 ⁺)	2378.13	(6 ⁺)	
813.8 1	100.0 17	813.80	2 ⁺	0	0 ⁺	[E2]
905.3 1	96.5 30	1719.11	(4 ⁺)	813.80	2 ⁺	
978.4 1	41.2 14	2697.60	(6 ⁺)	1719.11	(4 ⁺)	
993.5 2	7.6 8	4787.5	(12 ⁺)	3794.04	(10 ⁺)	
1091.9 1	7.1 6	3794.04	(10 ⁺)	2702.13	(8 ⁺)	
1544.5 3	11.2 8	7103.5	(18 ⁺)	5558.9	(16 ⁺)	

[†] Relative intensities.

[‡] From adopted gammas.

[#] Placement of transition in the level scheme is uncertain.

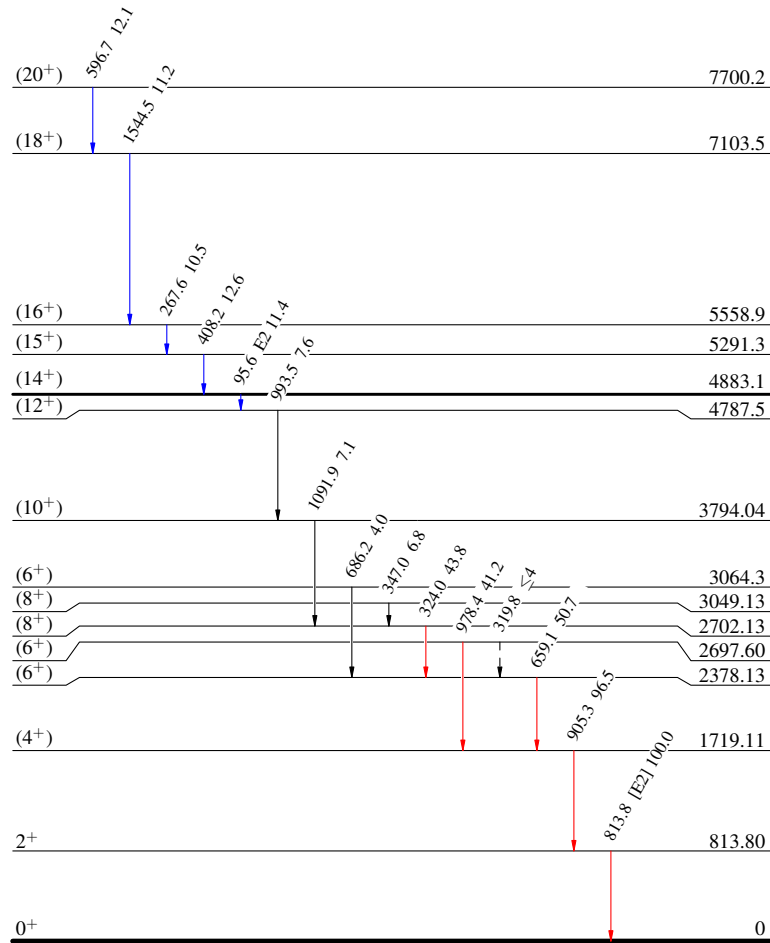
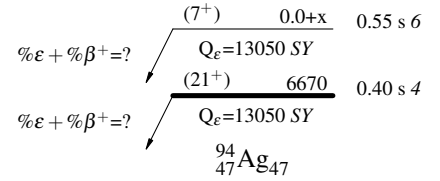
⁹⁴Ag ε decay: (7⁺)+(21⁺) 2004PI01,2002La18

Legend

- I_γ < 2% × I_γ^{max}
- I_γ < 10% × I_γ^{max}
- I_γ > 10% × I_γ^{max}
- - - γ Decay (Uncertain)

Decay Scheme

Intensities: Type not specified



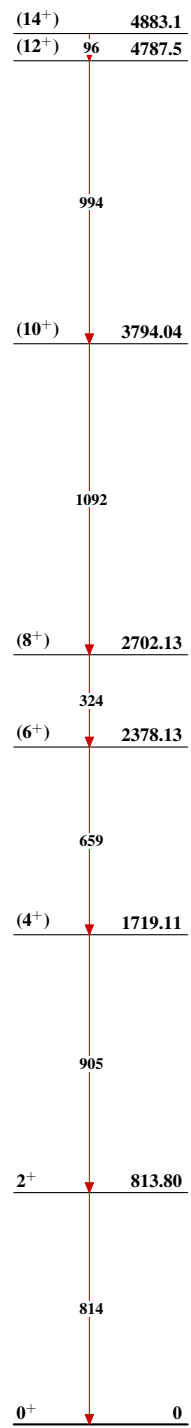
0.53 μs I

9.0 s 5

⁹⁴Pd₄₈

${}^{94}\text{Ag}$ ε decay: (7⁺)+(21⁺) 2004PI01,2002La18

Band(A): Yrast band

 ${}^{94}_{46}\text{Pd}_{48}$