

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni		NDS 111,2555 (2010)	30-Jun-2009

$Q(\beta^-) = -1.30 \times 10^4$ syst; $S(n) = 1.53 \times 10^4$ syst; $S(p) = 8. \times 10^2$ syst; $Q(\alpha) = -3.2 \times 10^3$ syst 2012Wa38

Note: Current evaluation has used the following Q record -13143 syst 15652 syst 1288 syst -3729 syst 2009AuZZ.

$\Delta Q(\beta^-) = 718$, $\Delta S(n) = 2079$, $\Delta S(p) = 401$, $\Delta Q(\alpha) = 566$, $S(2n) = 29407$ syst 718, $S(2p) = 5667$ syst 401, $Q(\epsilon p) = 5518$ syst 401 (2009AuZZ).

α : Additional information 1.

 ^{95}Ag LevelsCross Reference (XREF) Flags

- A** $^{58}\text{Ni}(^{40}\text{Ca}, p2n\gamma)$
B ^{95}Ag IT decay (<500 ms)
C ^{95}Ag IT decay (<16 ms)
D ^{95}Ag IT decay (<40 ms)

E(level) [†]	J ^π [‡]	T _{1/2}	XREF	Comments
0.0	(9/2 ⁺)	1.75 s 12	ABCD	$\% \epsilon + \% \beta^+ = 100$; $\% \epsilon p = ?$ T _{1/2} : weighted average of 1.74 s 13 (from $\beta\gamma(t)$ in 1997Sc30). and 1.85 s 34 (from $\gamma(t)$ in 2003Do09); Other result: 2.0 s 1 (1994Sc35) is superseded by 1997Sc30. With a $Q(\epsilon p) = 5518$ keV 401 (2003Au03, Systematic uncertainty), this level is expected to decay by ϵp , yet the branching ratio is unknown.
77.40 20	(7/2 ⁺)		B	
344.2 3	(1/2 ⁻)	<500 ms	B	$\%IT = 100$ T _{1/2} : from $\gamma(t)$ (2003Do09).
822.60 10	(11/2 ⁺)		A CD	
936.50 10	(13/2 ⁺)		A CD	
1939.7 12	(15/2 ⁺)		A CD	
2001.5 10	(17/2 ⁺)		A	
2103.5 15	(17/2 ⁻)		A CD	
2531.3 15	(23/2 ⁺)	<16 ms	A CD	$\%IT = 100$ T _{1/2} : 8 μ s < T _{1/2} < 16 ms from $\gamma(t)$ (2003Do09). Others: >1 μ s (2003Ma24).
2690.1 15	(25/2 ⁺)		D	
2882.5 14	(21/2 ⁺)		A	
2905.3 18	(19/2 ⁻)		A	
3984.6 15	(29/2 ⁺)		D	
4860.0 15	(37/2 ⁺)	<40 ms	D	$\%IT = 100$ T _{1/2} : from $\gamma(t)$ (2003Do09).

[†] From least square fit to $E\gamma$'s, assuming $\Delta E\gamma = 1$ keV when unknown.

[‡] From IT decay datasets (2003Do09) based on systematics, shell model predictions and multipolarities.

Adopted Levels, Gammas (continued)

$\gamma(^{95}\text{Ag})$								
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. [†]	α	Comments
77.40	(7/2 ⁺)	77.4 2	100	0.0	(9/2 ⁺)	(M1)	0.868 14	$\alpha(\text{K})=0.753$ 12; $\alpha(\text{L})=0.0940$ 15; $\alpha(\text{M})=0.0179$ 3; $\alpha(\text{N})=0.00309$ 5; $\alpha(\text{O})=0.0001420$ 23 $\alpha(\text{N}+..)=0.00324$ 6
344.2	(1/2 ⁻)	266.8 2	100	77.40	(7/2 ⁺)	(E3)	0.192	$\alpha(\text{K})=0.1493$ 22; $\alpha(\text{L})=0.0347$ 5; $\alpha(\text{M})=0.00683$ 10; $\alpha(\text{N})=0.001115$ 16; $\alpha(\text{O})=2.42 \times 10^{-5}$ 4 $\alpha(\text{N}+..)=0.001139$ 17 B(E3)(W.u.)>0.039
822.60	(11/2 ⁺)	822.6 1	100	0.0	(9/2 ⁺)	M1+E2	0.00179 11	$\alpha(\text{K})=0.00157$ 10; $\alpha(\text{L})=0.000186$ 9; $\alpha(\text{M})=3.53 \times 10^{-5}$ 16; $\alpha(\text{N})=6.1 \times 10^{-6}$ 3; $\alpha(\text{O})=2.85 \times 10^{-7}$ 22 $\alpha(\text{N}+..)=6.4 \times 10^{-6}$ 4
936.50	(13/2 ⁺)	936.5 1	100	0.0	(9/2 ⁺)	(E2)		
1939.7	(15/2 ⁺)	1003.2 21	100 11	936.50	(13/2 ⁺)	(M1+E2)		
		1117.1 15	57 14	822.60	(11/2 ⁺)	(E2)		
2001.5	(17/2 ⁺)	1065	100	936.50	(13/2 ⁺)			
2103.5	(17/2 ⁻)	163.8 9	100	1939.7	(15/2 ⁺)	E1	0.0391 9	$\alpha(\text{K})=0.0341$ 8; $\alpha(\text{L})=0.00408$ 9; $\alpha(\text{M})=0.000770$ 17; $\alpha(\text{N})=0.000132$ 3; $\alpha(\text{O})=5.63 \times 10^{-6}$ 12 $\alpha(\text{N}+..)=0.000137$ 3
2531.3	(23/2 ⁺)	427.8 1	100	2103.5	(17/2 ⁻)	(E3)	0.0311	$\alpha(\text{K})=0.0257$ 4; $\alpha(\text{L})=0.00437$ 7; $\alpha(\text{M})=0.000847$ 12; $\alpha(\text{N})=0.0001415$ 20; $\alpha(\text{O})=4.47 \times 10^{-6}$ 7 $\alpha(\text{N}+..)=0.0001459$ 21 B(E3)(W.u.)>0.052
2690.1	(25/2 ⁺)	158.8 1	100	2531.3	(23/2 ⁺)	(M1+E2)	0.20 9	$\alpha(\text{K})=0.16$ 7; $\alpha(\text{L})=0.027$ 15; $\alpha(\text{M})=0.005$ 3; $\alpha(\text{N})=0.0009$ 5; $\alpha(\text{O})=2.7 \times 10^{-5}$ 9; $\alpha(\text{N}+..)=0.0009$ 5
2882.5	(21/2 ⁺)	881	100	2001.5	(17/2 ⁺)			
2905.3	(19/2 ⁻)	801.8	100	2103.5	(17/2 ⁻)			
3984.6	(29/2 ⁺)	1294.5 1	100	2690.1	(25/2 ⁺)			
4860.0	(37/2 ⁺)	875.4 1	100	3984.6	(29/2 ⁺)	(E4)	0.00678 10	$\alpha(\text{K})=0.00574$ 8; $\alpha(\text{L})=0.000847$ 12; $\alpha(\text{M})=0.0001633$ 23; $\alpha(\text{N})=2.77 \times 10^{-5}$ 4 $\alpha(\text{O})=1.067 \times 10^{-6}$ 15; $\alpha(\text{N}+..)=2.88 \times 10^{-5}$ 4 B(E4)(W.u.)>28

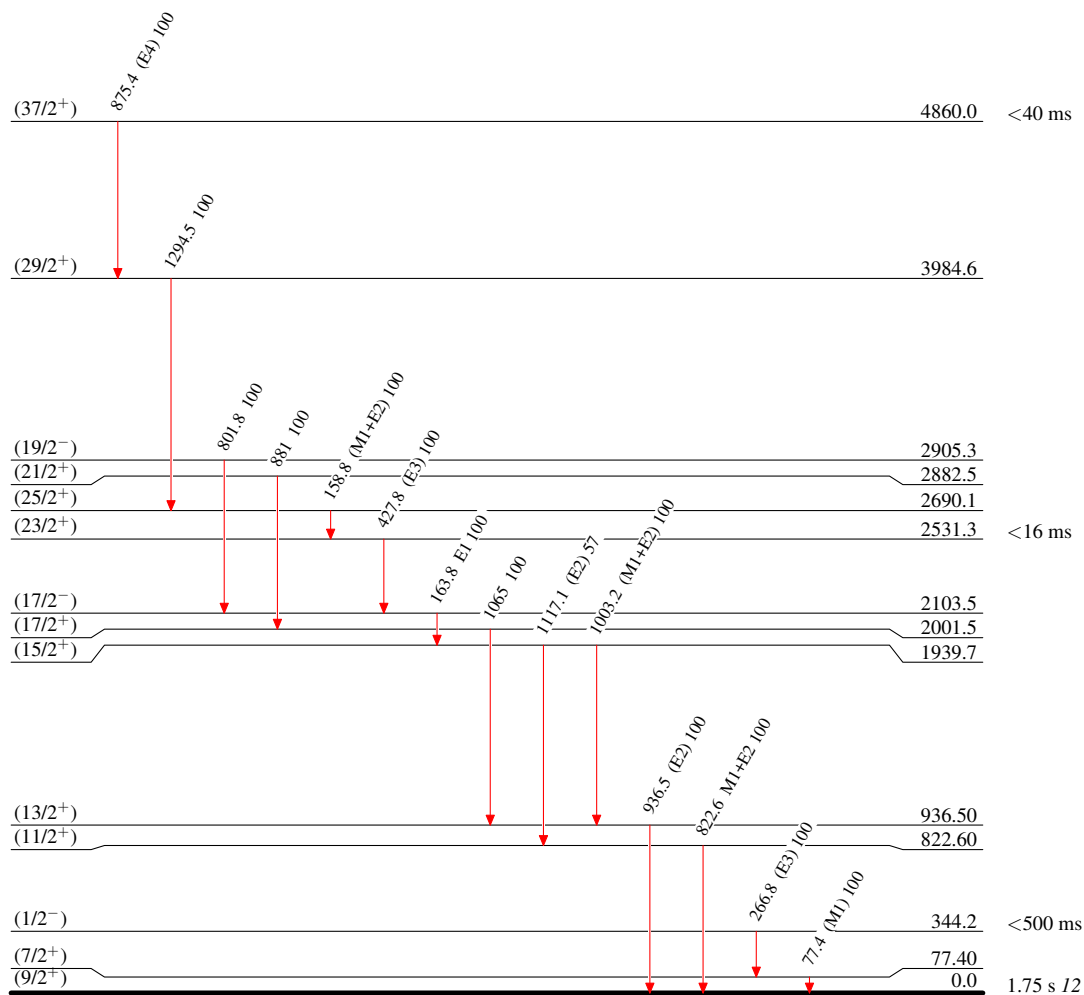
[†] From IT decay datasets (2003Do09), unless otherwise noted.

Adopted Levels, Gammas**Level Scheme**

Intensities: Type not specified

Legend

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

 $^{95}_{47}\text{Ag}_{48}$