

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yang Dong, Huo Junde		NDS 128, 185 (2015)	10-Jul-2015

$Q(\beta^-)=5.90\times 10^3$ 14; $S(n)=6.00\times 10^3$ 6; $S(p)=1.904\times 10^4$ 6; $Q(\alpha)=-14250$ SY 2012Wa38

$\Delta Q(\alpha)=300$ (2012Wa38).

All data are from ^{52}K β^- decay, except as noted.

 ^{52}Ca LevelsCross Reference (XREF) Flags

- A** ^{52}K β^- decay
B ^{53}K β^-n decay:30 ms
C $^9\text{Be}(^{54}\text{Ti}, ^{52}\text{CaX}\gamma)$
D $^{48}\text{Ca}(^{238}\text{U}, \text{X}\gamma)$

E(level)	J^π	$T_{1/2}$	XREF	Comments
0	0^+	4.6 s 3	ABCD	$\% \beta^- = 100$; $\% \beta^- n = ?$ $T_{1/2}$: from n- $\beta(t)$ (1985Hu03).
2563 1	2^+		ABCD	J^π : from systematics of even-even Ca isotopic chain.
3150 2			AB	
3990 2	(3^-)		A CD	J^π : from systematics of even-even Ca isotopic chain.
5190 20			A	
5550 30			A	
5760 40			A	
5950 40			A	
5951 2			A	
6700 50			A	
6940 80			A	
7160 20			A	
7410 50			A	
7570 35			A	
8090 20			A	
829×10^1 12			A	
8370 80			A	
8580 50			A	
8710 80			A	
895×10^1 16			A	
9130 40			A	
939×10^1 12			A	
963×10^1 15			A	
1014×10^1 22			A	
1050×10^1 15			A	
1110×10^1 52			A	

Adopted Levels, Gammas (continued)

<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>
2563	2 ⁺	2563 1	100	0	0 ⁺
3150		3150 2	100	0	0 ⁺
3990	(3 ⁻)	1427 1	100	2563	2 ⁺
5951		1961 1	100 13	3990	(3 ⁻)
		3388 2	27 4	2563	2 ⁺

γ(⁵²Ca)

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Level Scheme

Intensities: Relative photon branching from each level

