

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 $^{52}\text{K} \beta^-$ decay, except as noted.

 ^{52}Ca LevelsCross Reference (XREF) Flags

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

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) $\gamma(^{52}\text{Ca})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
2563	2^+	2563	1 100	0	0^+
3150		3150	2 100	0	0^+
3990	(3^-)	1427	1 100	2563	2^+
5951		1961	1 100	3990	(3^-)
		3388	2 27	2563	2^+

Adopted Levels, GammasLevel Scheme

Intensities: Relative photon branching from each level

