^{46}Ca(n,γ) E=thermal   1970Cr04

		History	
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. W. Burrows	NDS 108, 923 (2007)	20-Feb-2007

Measured γ's; Ge(Li) and annular NaI (0.1 MeV$\leq$E$\gamma$$\leq$3 MeV), Ge(Li) with NaI, pair-spectrometer and singles mode (1 MeV$\leq$E$\gamma$$\leq$8 MeV). Others: see 1995Bu05.

^{47}Ca Levels

E(level)	J$^{\pi}$[†]
0.0	7/2$^-$
2013.74 15	3/2$^-$
2875.42 19	(1/2$^-$,3/2$^-$)
4058.05 20	(1/2$^-$,3/2$^-$)
4809.19 18	1/2$^-$,3/2$^-$
5503.5? 3	1/2,3/2,5/2$^+$
(7276.36[‡] 27)	1/2^{+}[‡]

[†] From the Adopted Levels, except for the capture state.

[‡] E(level) from 2003Au03 (held fixed In least-squares adjustment). Spin and parity from thermal capture on an even-even target.

γ(^{47}Ca)

E$_{\gamma}$	I$_{\gamma}$[†]	E$_i$(level)	J$^{\pi}_i$	E$_f$	J$^{\pi}_f$
861.65 15	12.1 12	2875.42	(1/2$^-$,3/2$^-$)	2013.74	3/2$^-$
1772.67[‡] 10	4.4 5	(7276.36)	1/2$^+$	5503.5?	1/2,3/2,5/2$^+$
2013.57 20	98 10	2013.74	3/2$^-$	0.0	7/2$^-$
2044.22 20	10.0 10	4058.05	(1/2$^-$,3/2$^-$)	2013.74	3/2$^-$
2466.84 20	1.7 2	(7276.36)	1/2$^+$	4809.19	1/2$^-$,3/2$^-$
2795.5 3	2.1 2	4809.19	1/2$^-$,3/2$^-$	2013.74	3/2$^-$
3218.1 3	9.5 10	(7276.36)	1/2$^+$	4058.05	(1/2$^-$,3/2$^-$)
3489.6[‡] 5	0.8 1	5503.5?	1/2,3/2,5/2$^+$	2013.74	3/2$^-$
4400.6 4	10.4 11	(7276.36)	1/2$^+$	2875.42	(1/2$^-$,3/2$^-$)
5262.1 6	74 8	(7276.36)	1/2$^+$	2013.74	3/2$^-$

[†] Photon intensity relative to 100 n captures in ^{40}Ca.

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

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Legend

Level Scheme

Intensities: Photon intensity relative to 100 N captures In ^{40}Ca

$I_\gamma < \ 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)

$^{47}_{20}$Ca$_{27}$