^{6}Li(n,γ) E=thermal 1985Ko47

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Hu, Tilley, Kelley, Godwin et al.	NP A708,3 (2002)	23-Aug-2001

Target $J^{\pi}=1^{+}$.
1968Sp01: ^{6}Li(n,γ) E=thermal, measured Eγ, Iγ. Deduced Q. ^{7}Li deduced levels, branchings.
1970Sp02: ^{6}Li(n,γ) E=thermal, measured Eγ, Iγ. Deduced Q.
1972Op01: ^{6}Li(n,γ) E=thermal, measured Eγ, Iγ.
1978Gl01: ^{6}Li(pol. n,γ) E=slow, measured spin-dependent σ.
1997No04: ^{6}Li(n,γ) E≤2 MeV, analyzed reaction rates.
Threshold Q = 7251.02 *9* keV (1985Ko47).
1985Ko47: measured Eγ, Iγ; deduced Q.
Evaluated S(n)=7249.96 keV *9* (1995Au04).

^{7}Li Levels

E(level)[†]	J$^{\pi}$	T$_{1/2}$[‡]	Comments
0.0	3/2^{-}[‡]	stable	
477.612 *3*	1/2^{-}[‡]	73 fs *2*	
(7249.96 *9*)	1/2^{+},3/2^{+}		J$^{\pi}$: from s-wave neutron capture.

[†] From Eγ using least-squares fit to Eγ's.
[‡] From 1996FiZY.

γ(^{7}Li)

E$_{\gamma}$	I$_{\gamma}$[#@]	E$_i$(level)	J$_i^{\pi}$	E$_f$	J$_f^{\pi}$	Mult.[†]
477.595[†] *3*	38 *2*	477.612	1/2^{-}	0.0	3/2^{-}	M1(+E2)
6768.81[‡] *5*	38 *2*	(7249.96)	1/2^{+},3/2^{+}	477.612	1/2^{-}	
7245.91[‡] *5*	62 *2*	(7249.96)	1/2^{+},3/2^{+}	0.0	3/2^{-}	

[†] From 1996FiZY.
[‡] From level-energy differences.
[#] Intensities per 100 neutron captures from 1985Ko47.
[@] Intensity per 100 neutron captures.

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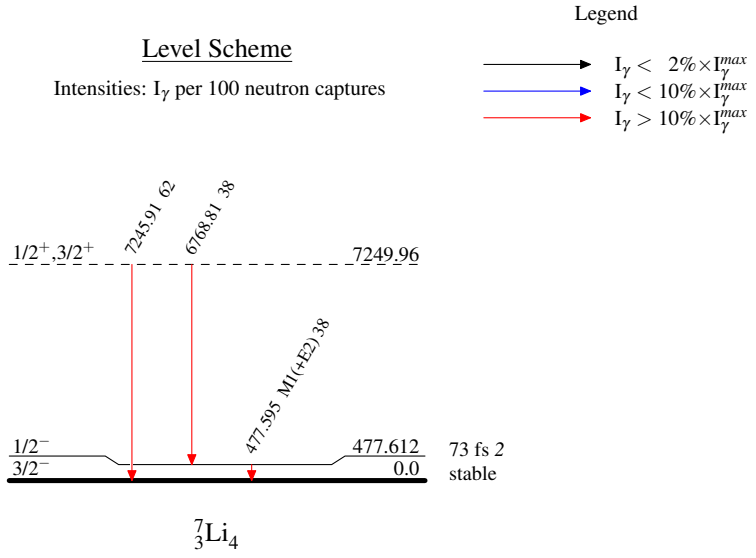
Level Scheme

Intensities: I_γ per 100 neutron captures



$^{7}_{3}Li_{4}$