

Adopted Levels, Gammas 2002Ti10,1988Aj01

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

Q(β⁻)=-4288 6; S(n)=5.66×10³ 5; S(p)=4433 20; Q(α)=-1474 2012Wa38

Note: Current evaluation has used the following Q record -4287.7 505665. 504593. 50-1474.3350 1997Au07.

⁶Li Levels

Cross Reference (XREF) Flags

A	⁶ He β ⁻ decay	I	⁶ Li(α,α)	Q	⁹ Be(t, ⁶ He)
B	³ He(³ H,X)	J	⁶ Li(⁶ Li,X)	R	⁹ Be(³ He, ⁶ Li)
C	⁴ He(d,d)	K	⁶ Li(¹² C, ¹² C)	S	¹⁰ B(d, ⁶ Li)
D	⁶ Li(e,e')	L	⁷ Li(γ,n), ⁷ Li(γ,pπ ⁻)	T	¹⁰ B(³ He, ⁷ Be)
E	⁶ Li(π ⁺ ,π ⁺ '), ⁶ Li(π ⁻ ,π ⁻)	M	⁷ Li(p,d), ⁷ Li(p,pn)	U	¹² C(α, ¹⁰ B), ¹² C(α,dα)
F	⁶ Li(p,p')	N	⁷ Li(d,t)	V	¹⁰ B(α, ⁸ Be)
G	⁶ Li(d,d)	O	⁷ Li(³ He,α), ⁷ Li(³ He,dα)	W	⁶ Li(γ,γ')
H	⁶ Li(³ He, ³ He)	P	⁹ Be(p,α)		

E(level)	J ^π	T _{1/2}	XREF	Comments
0.0	1 ⁺	stable	AB DEFGHIJKLMNOPQRSTUWV	μ=+0.82205667 26; Q=-0.818×10 ⁻³ 17 T=0 μ: From nuclear magnetic resonance (1989Ra17) other:+0.82204728 55 from atomic beam magnetic resonance (direct moment determination)(1989Ra17). Q: From 1998Ce04. %IT=?; %α=? T=0
2186 2	3 ⁺	24 keV 2	BCDEFGHIJKLMNOPQRSTUW	%IT=?; %α=? T=0
3562.88 10	0 ⁺	8.2 eV 2	B DEFGH J LMNOPQ W	%IT=? T=1
4312 22	2 ⁺	1.30 MeV 10	BCDEFG K MNOP U	%IT=?; %α=? T=0
5366 15	2 ⁺	541 keV 20	B D F MNOP R	%IT=?; %n=?; %p=?; %α=? T=1
5.65×10 ³ 5	1 ⁺	1.5 MeV 2	C F K OP R	%α=? T=0
15.8×10 ³ ?	3 ⁺	17.8 MeV 8	B	%α=? T=0
17985 25	2 ⁻	3.012 MeV 7	B	From 1988Aj01. %IT=?; % ³ H=? T=1
21.5×10 ³ ?	0 ⁻		B	Previously reported as E _x =21.0 MeV (1988Aj01). % ³ H=? T=1
23.×10 ³ ? 2	4 ⁺	12. MeV 2	BC	Γ: Broad. From 1988Aj01. %α=? T=0
24779 54	3 ⁻	6.75 MeV 11	B	From 1988Aj01. %IT=?; %n=?; % ³ H=? T=1
24890 55	4 ⁻	5.32 MeV 11	B	Previously reported as E _x =26.6 MeV 4, T=0(1988Aj01). %IT=?; %n=?; % ³ H=? T=1

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Adopted Levels, Gammas 2002Ti10,1988Aj01 (continued) ${}^6\text{Li}$ Levels (continued)

E(level)	J^π	$T_{1/2}$	XREF	Comments
26590 65	2 ⁻	8.68 MeV 13	B	%IT=?; %n=?; % ³ H=?; % α =? T=1
31. $\times 10^3$?	(3 ⁺)		B	% ³ H=?; % α =? Γ : Broad.

 $\gamma({}^6\text{Li})$

$E_i(\text{level})$	J_i^π	E_γ	E_f	J_f^π	Mult.	Comments
2186	3 ⁺	2186	0.0	1 ⁺	E2	$\Gamma_\gamma=4.40\times 10^{-4}$ eV 34; B(E2)(W.u.)=16.5 13
3562.88	0 ⁺	3561.75	0.0	1 ⁺	M1	$\Gamma_\gamma=8.19$ eV 17; B(M1)(W.u.)=8.62 18
4312	2 ⁺	4310	0.0	1 ⁺	E2	$\Gamma_\gamma=5.4\times 10^{-3}$ eV 28; B(E2)(W.u.)=6.8 35
5366	2 ⁺	5363	0.0	1 ⁺	M1	$\Gamma_\gamma=0.27$ eV 5; B(M1)(W.u.)=8.3 $\times 10^{-2}$ 15

Adopted Levels, Gammas 2002Ti10,1988Aj01Level Scheme