^{7}Li(^{3}He,γ) 1988Aj01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, et al.	NP A745 155 (2004)	31-Mar-2004

1968Li03: ^{7}Li(^{3}He,γ) E=3-6 MeV, measured σ(E,E$_\gamma$,θ). ^{10}B deduced levels, J, π.
1971Li20: ^{7}Li(^{3}He,γ) E=1.1,1.4,2.2 MeV, measured σ(E$_\gamma$,θ_γ). ^{10}B deduced levels, J, π.

^{10}B Levels

E, J$^\pi$, T from (1971Li20).

E(level)	J$^\pi$	T$_{1/2}$	Comments
0			
720			
3.59×10^3			
4.77×10^3			
18.43×10^3	2$^-$	340 keV	T=1 Γ: from (1971Li20,1974Aj01) and Γ$_{lab}$<500 keV (1965Pa02).
18.8×10^3	(2$^+$,1$^+$)	<600 keV	T=1; Γα<80 keV Γ: from (1965Pa02).
19.3×10^3	2$^-$	190 keV *20*	T=1; Γα<20 keV; Γ$_n$>0 keV; Γ$_p$>0 keV Γ: from (1966Di04). Γ=270 keV (1966Di04) and Γ=280 keV (see 1974Aj01 and 1965Pa02) are also reported.
20.2×10^3	1$^-$	350 keV *70*	Γα>0 keV; Γ$_n$>0 keV; Γ$_p$>0 keV; widtht>0 keV Γ: from (1966Di04). Γ=910 keV (1968Li03). And Γ=500 keV (1966Di04) are also reported.
21.1×10^3?			E(level): from E$_{res}$=4.7 MeV (1968Li03).

γ(^{10}B)

E$_i$(level)	J$_i^\pi$	E$_\gamma$	I$_\gamma$	E$_f$	Comments
18.43×10^3	2$^-$	13650	100	4.77×10^3	Γ$_\gamma$≥17 eV
		18412	18	0	Γ$_\gamma$≥3 eV
18.8×10^3	(2$^+$,1$^+$)	15198	100	3.59×10^3	Γ$_\gamma$≥20 eV
		18062	100	720	Γ$_\gamma$≥20 eV
19.3×10^3	2$^-$	14519	100	4.77×10^3	Γ$_\gamma$≥49 eV
		19280	24	0	Γ$_\gamma$≥12 eV
20.2×10^3	1$^-$	16595	100	3.59×10^3	Γ$_\gamma$≥350 eV
21.1×10$^{3?}$		20258	100	720	

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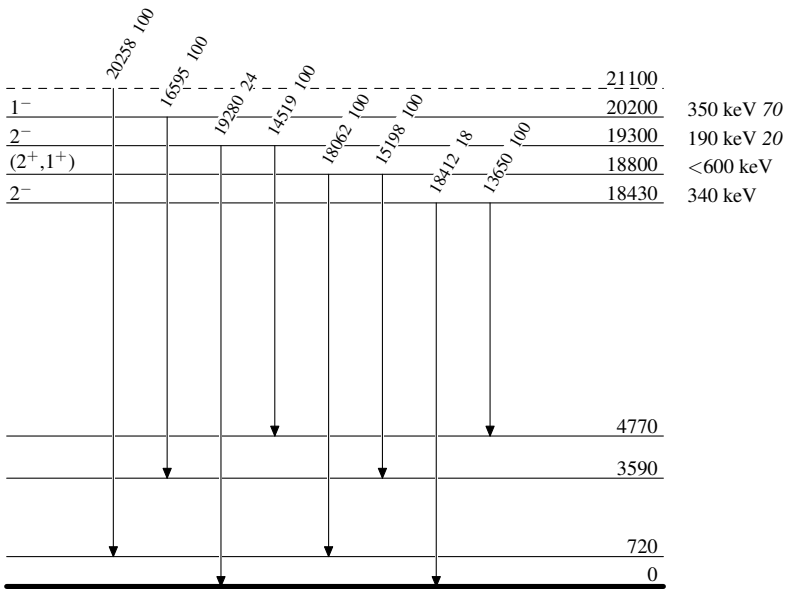
Level Scheme

Intensities: Relative photon branching from each level



$^{10}_{5}B_{5}$