^{7}Li(α,n),(α,nγ) 1970Ga01

History

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

1970Ga01: ^{7}Li(α,nγ) E=8.95 MeV, measured E_γ(THETA(γ)=0 degree), Doppler shift, recoil distance. ^{10}B deduced levels, $T_{1/2}$.
1972Va02: ^{7}Li(α,n) E=4.5-8.0 MeV, measured σ(E;E_N,θ).
1977Li19: ^{7}Li(α,n) E<7 MeV, analyzed σ(E).
1979Ba48: ^{7}Li(α,n) E=3-7.5 MeV, measured σ.
1981Se04: ^{7}Li(α,n) E=4.385-5.1 MeV, measured σ(E_α,θ). Deduced σ(E_α).
1984Ol05: ^{7}Li(α,n) E=4.38-4.67 MeV, measured σ(E). Deduced inverse reaction σ(E).
1993Vl02: ^{7}Li(α,n) E=5.5-5.8 MeV, measured photon to neutron yield ratio.

^{10}B Levels

E(level)	$T_{1/2}$	Comments
0		
719.1 *6*		
1739.7 *15*		
2154.8 *12*	1.49 ps *31*	Γ: from T_{mean}=2.15 ps *45* (1970Ga01).
4770?		see (1963Me08).
6420?		see (1963Me08).

γ(^{10}B)

E_γ	E_i(level)	E_f
415.1 *5*	2154.8	1739.7
719.1 *6*	719.1	0
1435.6 *10*	2154.8	719.1

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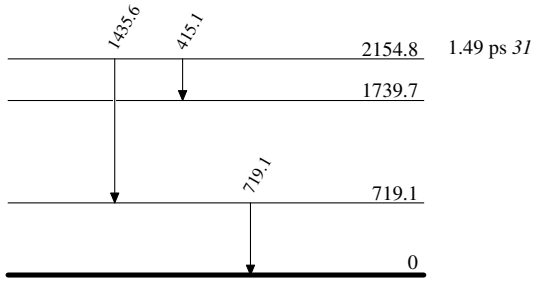
Level Scheme



$^{10}_{5}B_5$