^{7}Li(^{7}Li,^{8}B)   **1984Al08**

	History		
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. E. Purcell, C. G. Sheu	ENSDF	23-March-2017

The nucleus ^{6}H is first reported in this reaction (1984Al08); see (2012Th01). At E(^{7}Li)=82 MeV from Kurchatov Institute cyclotron, the spectrum of the outgoing ^{8}B was measured at θ_{lab}=10°; the cross section was about 60 nb/sr. The energy of the ^{6}H was deduced and the mass defect of the resonant state, which is assumed to be the ^{6}H ground state, was found to be 41.9 MeV 4, from which it follows that ^{6}H is unstable against the decay ^{6}H→^{3}H+3n by 2.7 MeV 4, and the width is Γ=1.8 MeV 5, which gives for the ^{6}H lifetime a value 3.7×10^{-22} s (1984Al08,2012Th01).

^{6}H Levels

E(level)	Γ	E$_{res}$(^{3}H+3n)(MeV)
0	1.8 MeV 5	2.7 4

^{7}Li(^{7}Li,^{8}B)   **1984Al08**