^{1}H(^{6}He,α) 1994Al54,2003Ro13

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. E. Purcell[#], C. G. Sheu[*]	NDS 130 1 (2015)	30-Jun-2015

Studies of this reaction have been reported in (1994Al54: E(^{6}He)=19.3 MeV), and (2003Ro13: E(^{6}He)=23.9 MeV). The outgoing α spectra in both studies had peaks corresponding the ground state of ^{3}H as well as resonance-like structures that would correspond to an excited state in ^{3}H at about 7 MeV with a width less than 1 MeV. It seems likely that the higher energy structure does not corresponds to a true ^{3}H resonance. It does not show up in n-d scattering, for example. Also, analogous structure in ^{3}He was not seen in the reaction ^{1}H(^{6}Li,α)^{3}He, E(^{6}Li)=30 MeV, (1994Al54). Alternative interpretations of the resonance-like structure at 7 MeV are given in (2003Ro13).

^{3}H Levels

E(level)	J^{π}
0.0	$1/2^{+}$