^{18}O(d,^{2}He) 1978DeYP

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	R. Spitzer, J. H. Kelley	ENSDF	30-Jun-2021

1978DeYP: ^{18}O(d,^{2}He→2p). Using a ^{18}O gas target and E_d=50 and 55 MeV beams from the 88-inch, the ^{18}O(d,^{2}He) energy spectrum was determined from analysis of the residual 2p particles from ^{2}He breakup. Evidence for three levels is presented based on a strong central peak with broad shoulders on either side. These are labeled preliminarily as ^{18}N*(0,0.28,0.45 MeV) with ΔM=−13.04 MeV *10* corresponding to the ground state. The evaluator suggests that the strong central peak corresponds to the presently accepted 115 keV state. See also (1979DeZO).

^{18}N Levels

E(level)[†]	Comments
0?	E(level): ΔM=−13.04 MeV *10*.
0.28×10^{3} *10*	
0.45×10^{3}? *10*	

[†] Energies deduced in this work are unreliable.