^{18}O(^{7}Li,^{7}Be) 1983Pu01

History

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

1983Pu01: The ^{18}O(^{7}Li,^{7}Be) reaction was measured using the Australian National University Pelletron accelerator. A beam of ^{7}Li ions impinged on a 140 μg/cm^{2} 99.2% enriched NiO^{18} target and reactions products were momentum analyzed using an Enge spectrometer at θ=4.5°, 8.5°, 10° and 15°. The lowest peak is resolved as a doublet where the ground state is found with ΔM=13116 keV *20*. Additional peaks shown in the spectrum correspond to E_x=121 keV *10* and 747 keV *10*. Additional groups associated with ^{18}N, not shown in the article, are found at E_x=2.21 and 2.42 MeV.

^{18}N Levels

E(level)	Comments
0	E(level): ΔM=13116 keV *20*. E(level): The strength of this state is 7% of the strength of the 121 keV state.
121 *10*	
747 *10*	
2.21×10^{3}	
2.42×10^{3}	