

$^{18}\text{O}(t,^3\text{He})$ 1969St07

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

1969St07: $^{18}\text{O}(t,^3\text{He})$. $E_t=22$ MeV. Population of the ^{18}N ground state was observed at the Los Alamos tandem facility. A 22 MeV triton beam entered a gas chamber filled with 99.3% ^{18}O gas enriched oxygen. Reaction products were measured using a ΔE -E telescope that was moved to cover $\theta=16.5^\circ$, 20° and 25° . The $2.2\ \mu\text{m}$ thick Havar foil exit window of the target cell limited the sensitivity of the measurement so that only the ground state group was observed with $Q=-14038$ keV 30 ; this corresponds to $\Delta M=13274$ keV 30 .

 ^{18}N Levels

E(level)	Comments
0^\dagger	E(level): $\Delta M=13274$ keV 30 .

† The ground state was later resolved as a doublet in $^{18}\text{O}(^7\text{Li},^7\text{Be})$ (1983Pu01).