$^{12}C(^{8}He,^{6}H)$ 2008Ca22

History

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

A E(^{8}He)=15.4 MeV/nucleon beam from the GANIL-SPIRAL facility, produced via the $^{12}C(^{13}C,^{8}He)$ reaction, impinged on a C_4H_{10} gas target. In $^{12}C(^{8}He,^{6}H)^{14}N$ reactions, the ^{6}H decays into ^{3}H+3n. Events with ^{14}N and ^{3}H detected in coincidence were analyzed, and a resonance was observed at 2.91 MeV *+85-95* above the ^{3}H+3n threshold with a width of 1.5 MeV *+18-4*. The cross section was found to be 19 μb/sr *+62-13* over the range of angles from 8.7° to 48.2°.

^{6}H Levels

E(level)	Γ	$E_{res}(^{3}H+3n)$(MeV)	Comments
0	≈1.52 MeV	≈2.91	E(level): From $E_{res}(^{3}H+3n)$=2.91 MeV *+85-95*. Γ: From Γ=1.5 MeV *+18-4*.