^{9}Be(^{12}C,X),^{12}C(^{12}C,X) 1964Da13

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. H. Kelley, G. C. Sheu	ENSDF	16-Jan-2018

1964Da13: A beam of 120 MeV ^{12}C ions, from the Yale heavy ion accelerator, bombarded either a ≈12 mg/cm^2 ^{9}Be target or a ≈12 mg/cm^2 ^{12}C target. Reaction products, produced in the target were studied using a Si surface barrier detector for charged particles, a thick plastic scintallator for β^+ particles and a 3 inch × 3 inch NaI(Tl) crystal to detect γ rays.

Proton groups with E_p=2.3, 3.8, 4.55, 4.9 and 5.1 MeV are attributed to β-delayed proton emission from ^{17}Ne. The life-time T=690 ms 30 is deduced; the discrepancy with the accepted value is not understood.

^{17}Ne Levels

E(level)
0?