C(^{19}B,X) 1999Su17

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	G. C. Sheu, J. H. Kelley	ENSDF	25-Oct-2018

1998SuZM,1999Su17: A secondary beam of E(^{19}B)=740 MeV/nucleon ions, produced at the GSI/FRS facility, impinged on a carbon target (10.163 g/cm^2). The rigidity-separated isotopes were identified by their charges and time-of-flight information. The interaction cross section σ_I(^{19}B)=1219 mb *83* was measured. The r.m.s. radius r_m=3.11 fm *13* was determined using the optical limit (OL) of the Glauber model. A "core plus 4n" structure for ^{19}B is suggested according to the valence radius analysis.

2000Ch20: A secondary beam of E(^{19}B)≈720 MeV/nucleon ions, produced at the GSI projectile fragment separator (FRS), impinged on a carbon target (10.16 or 5.34 g/cm^2). The isotopes were identified by the ΔE-time-of-flight-B_ρ method. Total charge-changing cross sections, σ_{cc} were measured within an accuracy of 5%. σ_{cc}(^{19}B)=901±201 mb.

See also (1999Bo46) and (2001Oz04,2015Ha20,2017Ah08: theory).

^{19}B Levels

E(level)
0