

ION PRODUCTION IN THE $^{12}\text{C} + ^7\text{Be}$ INTERACTIONS AT GeV ENERGIES

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Differential cross sections of nuclear fragment production at 3.5 degrees for ^{12}C fragmentation at 0.3 – 2.0 GeV/nucleon on a Be target were measured in the FRAGM experiment at the ITEP TWA heavy ion accelerator. The momentum spectra of fragments span the region of the fragmentation peak as well as the cumulative region. The differential cross sections cover up to five orders of magnitude. The fragment momentum distributions in laboratory frame as well as the kinetic energy spectra in the rest frame of the fragmenting nucleus are used to test the predictions of four ion-ion interaction models: INCL++, LAQGSM03.03, QMD and BC. Here we focus on our results obtained at 0.95 and 2.0 GeV/c.

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