

Forward Yields of the Secondary Light Nuclei in CC-collisions at Beam Energy 20.5 GeV/n on the Accelerator U-70 in Comparison with Models UrQMD, FTFP BERT EMV and QGSP FTFP BERT EMV in the Framework of GEANT4

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Measured forward Yields of the secondary light nuclei in CC-collisions at beam energy 20.5 GeV/n on the accelerator U-70 are presented. The beam line number 22 was used as spectrometer of the secondary fragments. For detection of particles on its output and measuring of their characteristics the equipment of modified two arms spectrometer FODS2 was activated, where one of arms was set at zero angle relatively to the channel axis. The measurements were carried out on forward cone within the polar angle of produced particles from 0 to 7 mrad. Rigidity (P/Z) of the channel was varied in the experiment from 7 to 70 GeV/c. The obtained results are compared with models UrQMD, FTFP_BERT_EMV and QGSP_FTFP_BERT_EMV in the framework of GEANT4.

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