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SIMULATION OF HADRONIC INTERACTIONS IN THE FRAMEWORK OF THE RTS&T- 2017 CODE

The paper describes a new developments in modeling of discrete hadronic interactions included in last version of the RTS&T (RTS&T-2017) code (implementation of improved versions of interaction models and modern evaluated nuclear data libraries) A comparison of the recent experimental data on double differential and total yields of diffractive, quasi-elastic, s, g and b-particles resulting from the high-energy hN- , hA and AA-interactions is made with different semi-empirical and theoretical models of direct hadron production: data-driven model, parametrization-driven model, intranuclear cascade model, quark-gluon string model, parton cascade model and quantum molecular dynamic model combined with generalized pre-equilibrium-evaporation (or Fermi break-up) and binary fission models to describe of slow particles and residual nuclei emission.

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