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Nucleon knockout reactions within the intranuclear cascade model INCL

Wednesday, 2 August 2023 14:25 (25 minutes)

The main features of the intranuclear cascade model INCL for describing single-nucleon and multi-nucleon knockout cross sections will be presented in this talk. For the interpretation of experimental data on knockout cross sections, this model is coupled to the deexcitation code ABLA, which calculates the particle separation energies from the atomic mass evalutation AME2020. The results obtained for different data sets from RIKEN and GSI will be shown. Moreover, the new INCL improvements related to the implementation of short-range correlations will also be presented together with the results obtained for neutron and proton knockout cross sections measured in different worldwide facilities.

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