

Generic hadron-ion collisions in Pythia/Angantyr

Monday, June 12, 2023 2:00 PM (30 minutes)

In this talk I will present a new model for hadron-ion collisions in Pythia8/Angantyr, for generic hadron species. This work also includes a feature to change the hadron species and energies on an event-by-event basis, which is particularly important for applications to hadronic showers. The basic features of the model are tested by comparing to photoproduction data from HERA, UPC data from ATLAS, and pion-carbon scattering data from NA61/SHINE.

Author: MARIUS, Utheim (University of Jyväskylä)

Presenter: MARIUS, Utheim (University of Jyväskylä)

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