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Type: **Poster**

Pythia8 is ready for heavy-ion physics

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We have formulated a new model for collisions with nuclei, called Angantyr, which is now included in the Pythia8 event generator. The model is inspired by the old Fritiof model, but includes also effects of hard partonic interactions. It uses the Glauber model to calculate the number of wounded nucleons, but includes fluctuations in the NN interaction to separate absorbed and diffractively excited nucleons. The MC simulates final states without assuming a thermalized plasma. Hence, in this manner we are providing an event generator to be used to simulate events from pp to AA with the same underlying physics approach. Collective effects due to high string density are not included in the present version, but will be added in future work.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

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