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Hadronic interactions in Angantyr

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In recent times, the Pythia event generator has been extended to feature simulations of generic hadron-nucleon interactions. In this talk, I present a further extension to hadron-ion interactions, which are of particular relevance for air showers where hadronic cascades interact with nuclei in the air.

The model has been validated against NA61/SHINE data. The model also has applications to the vector-meson dominance component of photo-induced processes, and in this context has been found to give a good description of HERA and ATLAS data.

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