



Contribution ID: 85

Type: poster

Hadronic Interactions in Extensive Air Showers

The detailed analysis of cosmic ray induced extensive air showers requires a good knowledge of hadronic particle production in the shower cascade. For ultra-high energy cosmic rays this depends on the extrapolation of the available accelerator data by the models over wide ranges in energy but also into the forward phase space. We demonstrate how the extrapolation of different particle production features impacts the prediction of important air shower observables.

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