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Cosmic ray interaction models: an overview

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I shall review the state-of-the-art concerning the treatment of high energy cosmic ray interactions in the atmosphere, discussing in some detail the underlying physical concepts and presenting a comparison of model results with selected accelerator data. Further, the relation of basic characteristics of hadronic interactions with the properties of

nuclear-electromagnetic cascades induced by primary cosmic rays in the atmosphere will be addressed.

Primary author: Dr OSTAPCHENKO, Sergey (Frankfurt Institute for Advanced Studies (FIAS))

Presenter: Dr OSTAPCHENKO, Sergey (Frankfurt Institute for Advanced Studies (FIAS))

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