

## QGSJET-III model: novel features

*Wednesday, 9 June 2021 16:50 (15 minutes)*

I discuss the physics content of the QGSJET-III model, paying a particular attention to the treatment of higher twist and color fluctuation effects. The consequences for the energy dependence of both interaction cross sections and particle production will be analyzed. Further, the implementation of the pion exchange mechanism will be described, concentrating on its relevance to the interpretation of the data of the LHCf experiment.

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