

10th Edition of the Large Hadron Collider Physics Conference



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Prospects of the LHCf operation in 2022

Tuesday 17 May 2022 19:00 (1 hour)

LHC forward (LHCf) experiment measures forward neutral particles to improve hadronic interaction models adopted in cosmic-ray air shower simulations. This summer, we plan to have a data taking in proton-proton collisions. We expect ten times larger statistics than the previous operation in 2015 which allows us to measure π^0 and eta mesons more precisely. Moreover, we plan to have a joint operation with the ATLAS Zero degree calorimeter in this operation.

Improvements in energy resolution for hadrons are expected by the joint operation and allow us to select the one-pion exchange process. In this talk, we present the prospects of the next LHCf operation.

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