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Type: **Parallel session talk**

Prompt neutrinos from the atmosphere to the forward region of LHC

Tuesday, 22 August 2023 08:50 (20 minutes)

We investigate the kinematical regions that are important for producing prompt neutrinos in the atmosphere and in the forward region of the LHC, as probed by different experiments. We illustrate the results in terms of the center-of-mass nucleon-nucleon collision energies and rapidities of neutrinos and of the parent heavy-flavoured hadrons. We find overlap in only part of the kinematic space and we point out the physics requirements needed to appropriately describe the two regimes.

The contribution is based on W. Bai et al. [arXiv:2212.07865]

Collaboration / Activity

Theory

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