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Opportunities with Calorimeters at LHC: How to solve the muon puzzle?

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Zero degree calorimeters at LHC like LHCf or in CMS provide the opportunity to identify pion-exchange reactions at very high energies $p+p \rightarrow p+\pi+n$ where the neutron escapes at zero degree and the pion and the proton subsequently collide in the detector. This provides a unique opportunity to learn about pion collisions, which are one of the largest uncertainties in air showers.

Summary

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Session Classification: Applications and requirements of CORSIKA