

Atmospheric neutrinos from perturbative charm production and decay

Tuesday, 5 May 2015 14:00 (23 minutes)

The high energy atmospheric neutrino flux is dominated by charm production by cosmic ray interactions in the atmosphere, followed by their prompt decays. Using next-to-leading order QCD and several cosmic ray flux parameterizations, the prompt atmospheric neutrino flux is discussed, along with uncertainties associated with the perturbative evaluation.

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Session Classification: Cosmic Rays

Track Classification: Cosmic Rays (Theory / Experiment)