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Atmospheric muon and electron neutrino energy spectrum measured by first year of IceCube-86 detector

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Due to the large amount of flux, atmospheric neutrino is the main background for the IceCube neutrino telescope. Precise measurement of its spectrum allows us to reduce uncertainty of any kind of signal analysis. In this paper, we measure atmospheric muon and electron neutrino spectrum from first year of IceCube-86 detector. Track type events originate from muon neutrino and cascade type events originate from both muon and electron neutrino are analyzed together by likelihood fit. Normalization and modified spectrum index compare to the model spectrum are determined.

Collaboration

IceCube

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