

Search for Diffuse Astrophysical Muon Neutrinos with Two Years of IceCube Data

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The IceCube Neutrino Observatory routinely records thousands of muon neutrino events per year at TeV and higher energies. The majority of these neutrinos are produced in Earth's atmosphere by cosmic ray interactions, but it is of great interest to observe a population of events consistent with astrophysical origin. This talk will discuss a search for a hard component in the muon neutrino energy spectrum with high-quality upward-going events. This extends previous IceCube analyses by using two years of data collected with the complete detector configuration.

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