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Latest results on astrophysical neutrinos using high-energy events with contained vertices

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Session and Location

Wednesday Session, Poster Wall #175 (Ballroom)

Abstract content

The IceCube Neutrino Observatory, a cubic kilometer scale detector in the deep Antarctic ice, has detected an astrophysical neutrino flux above 100 TeV. In this poster we present the results of seven years of data using a sample of high-energy events with contained vertices. Compared to previous iterations of this analysis, the treatment of systematics and calibration has been improved and new reconstructions have been employed. The analysis studies an extended set of astrophysical scenarios, such as a double power-law and a high-energy cutoff. Additionally, searches for galactic and extra-galactic point sources have been performed and the results will be presented.

Poster included in proceedings:

yes

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