

New measurements with high-energy neutrinos in IceCube

Authorship annotation

for the IceCube collaboration

Session and Location

Wednesday Session, Poster Wall #173 (Ballroom)

Abstract content

The IceCube Neutrino Observatory, a cubic-kilometer in-ice detector at the South Pole, offers a unique window into the smallest and largest scales of our universe. In this poster, I will present several new physics analyses with seven years of data using the high-energy starting event selection. This includes a Standard Model cross-section measurement that exploits the flux attenuation of high-energy neutrinos as they pass through the Earth, constraints on dark matter scattering, annihilation and decay, and new-physics constraints Beyond the Standard Model.

Poster included in proceedings:

yes

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