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Light Unstable Sterile Neutrino Search in IceCube

Anomalies in short-baseline neutrino experiments suggest the existence of an eV-scale sterile neutrino. Recent fits, to the relevant global neutrino data, find preference for a 3+1 model where the heaviest mass state decays. IceCube, a gigaton ice-Cherenkov neutrino detector, is uniquely sensitive to the effect of these sterile neutrinos on the atmospheric muon neutrino flux at TeV energies. We present the latest from an analysis searching for light unstable sterile neutrinos in IceCube using eight years of data.

Mini-abstract

New search for eV-scale, unstable sterile neutrinos in IceCube using atmospheric neutrinos.

Experiment/Collaboration

IceCube Collaboration

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