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Status of searches for light-sterile neutrinos at TeV energies in IceCube

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IceCube has measured the atmospheric neutrino spectrum at TeV energies with increasing accuracy over the past eight years. At these energies, a matter-induced resonance greatly increases amplitude of the active-to-sterile oscillation probability for mass-squared-differences in the eV^2 scale. Sterile neutrinos at these mass differences are motivated by the observation of electron neutrino appearance at $L/E \sim 1 \text{ GeV/km}$ by LSND and MiniBooNE. In this talk, I will present the status of the search for sterile neutrinos in the high-energy range.

Summary

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