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Measurements of Neutrino Oscillations with IceCube

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Although designed to observe neutrinos from astrophysical sources at TeV-PeV energies, IceCube and its DeepCore in-fill array also observe large numbers of atmospheric neutrinos in the 5-50 GeV range, permitting measurements of the "atmospheric"neutrino mixing parameters in a higher energy range complementary to measurements from long-baseline neutrino beam experiments. As these energies are above the tau lepton production threshold, tau neutrino appearance can be observed in addition to muon neutrino disappearance. Recent measurements from two complementary analyses of these effects will be presented.

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