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## Neutrino Oscillations with DeepCore and PINGU

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The IceCube neutrino telescope was augmented with the DeepCore infill array, completed in the 2010/11 austral summer, to enhance its response to neutrinos at energies below 100 GeV. At these energies, neutrino oscillation effects are visible in the flux of atmospheric neutrinos traversing path lengths comparable to the Earth's diameter. Results of the first observations of muon neutrino disappearance with data from DeepCore will be presented, and the potential for future measurements of the oscillation parameters, potentially including observation of tau neutrino appearance, will be discussed. In addition, plans for PINGU, a further upgrade of IceCube aiming to determine the neutrino mass hierarchy, will be described.

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