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Neutrino Oscillations with IceCube and the IceCube Upgrade

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Neutrino oscillations remain the sole laboratory signals of Beyond the Standard Model physics and the IceCube Neutrino Observatory detects tens of thousands of atmospheric neutrinos per year which are used for oscillation analyses. Beyond particle physics, neutrino oscillations play an important role for interpreting any astrophysical neutrino fluxes, due to the impact of oscillations over cosmic distances. In this talk I will present the leading oscillation results from IceCube DeepCore (including muon neutrino disappearance and tau neutrino appearance) as well as the prospects for the upcoming IceCube Upgrade; a low energy extension to the existing array.

Collaboration name

IceCube

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