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Measurement of the atmospheric neutrino flux and related key parameters at 6-180 GeV in IceCube

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The IceCube Neutrino Observatory instruments more than a cubic kilometre of the deep glacial ice below South Pole Station, Antarctica, creating the largest water Cherenkov detector. With the addition of a low energy detection array, DeepCore, completed in 2010, the observatory is sensitive to neutrinos with energies between 10 GeV and the EeV scale. IceCube has now accumulated the world's largest sample of atmospheric neutrinos, providing the ability to perform precision studies of the flux over the full energy range of the detector. We present results of atmospheric neutrino flux measurements with particular attention to the low-energy regime.

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