



Poster session 4 – Friday 8 July

P4.003 Studying neutrino oscillations with atmospheric neutrinos in DUNE

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The 40kt DUNE Far Detector, located at the Sanford Underground Research Facility, will offer unique capabilities for the study of atmospheric neutrinos. Due to the detector's excellent energy resolutions, angular resolutions, and particle ID capabilities, atmospheric neutrino analyses in DUNE can provide valuable information about 3-flavor oscillations, despite the relatively modest statistics. These data provide a complementary analysis approach to beam neutrinos, and can help resolve ambiguities in beam-only analyses. In this talk we will focus on the determination of the mass hierarchy, octant of θ_{23} , and measurement of Δ_{CP} using atmospheric neutrinos in DUNE.