

Atmospheric Neutrino Oscillations at Hyper-Kamiokande

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Recently experimental measurements of reactor, atmospheric, and solar neutrinos have provided an increasingly clear picture of neutrino oscillations. However, several open issues including the nature of the neutrino mass hierarchy, the octant of θ_{23} , and whether or not neutrinos are CP-violating, remain. Atmospheric neutrinos are capable of addressing these questions due to the sizeable matter effects they experience as they traverse the Earth. With 25 times the fiducial volume of the Super-Kamiokande detector, Hyper-Kamiokande will have unprecedented access to these oscillations. This talk will focus on the sensitivity of atmospheric neutrinos at Hyper-Kamiokande to open questions in oscillation physics, particularly in the era of large θ_{13} now favored by reactor experiments.

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