

Hyper-Kamiokande

Wednesday 26 July 2017 13:30 (15 minutes)

Hyper-Kamiokande is a next generation water Cherenkov detector consisting of 2 tanks, each with 187 kton fiducial mass, to be built in a staged approach. Hyper-Kamiokande will detect neutrinos produced by the upgraded J-PARC accelerator complex, as well as atmospheric neutrinos. It will enable us to search for CP violation in the lepton sector with an order of magnitude more data than current long baseline experiments will collect. Hyper-Kamiokande will also make precision measurements of the phase δ_{cp} and the atmospheric mixing parameters by a combination of accelerator and atmospheric neutrinos. Hyper-Kamiokande also aims to discover the proton decay. This talk will discuss overview of the Hyper-Kamiokande project and its physics programs, focusing on neutrino oscillation physics and proton decay search.

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Session Classification: Neutrino Parallel

Track Classification: Neutrinos