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Hyper-Kamiokande

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Hyper-Kamiokande is a next generation large-scale water Cherenkov detector. Its fiducial volume will be about an order of magnitude larger than Super-Kamiokande and the detector performance is significantly improved with newly developed photo-sensors. Combination of the Hyper-Kamiokande detector with the upgraded J-PARC neutrino beam will provide unprecedented high statistics of the neutrino and antineutrino signals to measure the CP violation and reveal a full picture of neutrino mixing with high precision. Prospects for the CP violation measurements by the Hyper-Kamiokande long baseline project will be presented. In addition , we will discuss the physics potential of Hyper-K on solar and astrophysical neutrinos.

Collaboration name

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