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The Hyper-Kamiokande Experiment: Status and Prospect

Thursday 7 December 2023 16:20 (20 minutes)

Hyper-Kamiokande is the next generation neutrino observatory with broad physics programs: searching for leptonic CP violation in long baseline accelerator neutrino oscillations, neutrino mass ordering, potentially discovering the proton decay, observing supernova burst neutrinos, supernova relic neutrinos as well as another type of astrophysical neutrinos and solar neutrinos. It will be the world largest underground Cherenkov detector, with an eight times larger fiducial volume than its predecessor, Super-Kamiokande, filled with 258 kton of ultrapure water, starting its operation in 2027 at Kamioka, Japan.

In this presentation, we will describe the physics program of Hyper-Kamiokande, as well as present the status of the experiment.

Name of collaboration or list of co-authors

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