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The Hyper-Kamiokande Experiment

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Hyper-Kamiokande is a planned next-generation multi-purpose megaton-scale water Cherenkov detector in Japan. It is situated along the same J-PARC beam line as T2K. The detector, which is heavily influenced by its successful predecessor Super-Kamiokande, will consist of two cylindrical tanks filled with 260 ktons of ultrapure water, a volume approximately 10 times larger than Super-Kamiokande. 40,000 ultrasensitive photo-sensors will clad its internal volume and 6,700 on the external detector faces. This massive undertaking provides challenges for R&D, calibration, DAQ and construction. We will present the current detector design, systems and status, as well as its capability to address the fundamental question of the CP violation in the leptonic sector. Results assuming the second tank based in Korea will also be presented.

Experimental Collaboration

Hyper Kamiokande

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