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Hyper-Kamiokande: the road to measure the CP-phase in the neutrino sector

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The next generation neutrino oscillation experiment, Hyper-Kamiokande, will consist of a 260 kt underground water-Cherenkov far detector located 295 km from the upgraded J-PARC neutrino beam of 1.3 MW. The primary goal of the experiment is the detailed study of neutrino oscillations and the precise measurement of the CP-violating phase. The latter is one of the main goals of the project and requires both flux and cross-section systematic uncertainties to be significantly reduced. To that end, the project will also count on a series of detectors closer (near and intermediate) to the neutrino beam will be deployed at various off-axis locations. In this presentation, an overview of the status of the entire project and a summary of all the activities toward the precise measurement of the CP-violating phase will be shown.

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Classification de Session: Experiments