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Exploring Neutrino Phenomenology for the Hyper-Kamiokande Project

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Currently, we are living in the precision era of neutrino physics since several fundamental parameters which describe the flavor mixing of the standard 3 flavors of neutrinos such as mixing angles and mass squared differences have been and are being measured with a few percent precisions by many experiments. In the next decade, it is expected that due to several new large scale experiments such as JUNO, DUNE and Hyper-Kamiokande (HK), we will be able to improve significantly our understanding regarding the basic properties of neutrinos including CP violation and mass ordering. In this talk, after introducing the HK project, we will make a brief presentation of some theory/phenomenology related activities for the HK project we are developing at PUC-Rio with some external collaborators. We are also interested to explore possible synergy and/or complementarity of HK with other experiments such as JUNO and DUNE.

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