



APC Colloquium

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Amphitheatre Pierre-Gilles de Gennes, Bâtiment Condorcet

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Reactor neutrinos: Portal to New Physics



ABSTRACT

Neutrino physics, in particular neutrino oscillation, may help us to resolve many known and unknown problems in particle physics and cosmology. Progress in the last twenty years has been enormous, but more will come in the next twenty years. In this talk, I will introduce a little bit the history of reactor neutrinos, its key technology advancement, and then focus on the JUNO experiment: its ideas behind the design, complications and difficulties during the construction and initial performance results. I will report the latest physics results on the indication of the neutrino mass ordering, and future prospects including the upgrade plan for double-beta decays.

