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Sensitivity of oscillation experiments to the neutrino mass hierarchy

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The large value of θ_{13} recently discovered at reactor neutrino experiments has opened the door to determine the ordering of their mass eigenstates in the near future. However, since the neutrino mass ordering is a discrete parameter it is not clear whether the median sensitivity of a given experiment would coincide with the usual values reported in the literature. I will present a summary of the different possibilities to determine the neutrino mass ordering in the near future, and I will briefly discuss the statistical issues related to the significance of the signal for this measurement.

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Classification de Session: Neutrino experiments

Classification de thématique: Theory