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Sensitivity to the Neutrino Mass Hierarchy

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Precisely one neutrino mass hierarchy is realized in nature. How can this crucial fact be incorporated into a statistical analysis of the mass hierarchy? It implies that the problem is not hypothesis testing, but rather model selection. The corresponding tools are standard, but different. We will discuss some statistical issues that will be relevant in this kind of experiment, present a simple formula for the corresponding sensitivity and confront it with simulations of the experiment JUNO.

Summary

Presenter(s) : CIUFFOLI, Emilio (IMP, CAS)

Session Classification : Contributed and invited talks and discussions on statistical methods and issues