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Will the neutrino mass hierarchy be determined at future oscillation experiments?

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With the large value of θ_{13} recently discovered, the measurement of the neutrino mass ordering (hierarchy) may be accesible at non-beam experiments. Moreover, the present generation of long baseline experiments is expected to see at least a hint for this parameter, while phase I of the LBNE project is expected to obtain a significance between 3 and 5σ. However, the neutrino mass hierarchy is a discrete parameter and therefore it is not clear if the confidence of the measurement coincides with the gaussian case. We explore this problem and pay special attention to the interplay between the mass hierarchy and the value of the CP-violating phase δ, rather relevant for long baseline experiments.

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