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Overview of Neutrino Mass Measurements

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Neutrino mass is a fundamental parameter of particle physics with important implications for cosmology and the Standard Model of particle physics. Despite of almost 100 years of experimental effort, its absolute scale remains unknown. Over that period, direct kinematic measurements, searches for neutrino-less double beta decay, and oscillation experiments have progressively put constraints on combinations of neutrino mass eigenvalues.

In this talk I will give a brief introduction to the methods used to probe neutrino mass and then focus on an overview of current experiments dedicated to the direct neutrino mass measurement. Then I will summarise their measurement strategies, status, and projected sensitivities, and discuss the complementarity between different projects.

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