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Direct neutrino mass measurement at the KATRIN experiment

The KArlsruhe TRItium Neutrino experiment (KATRIN) is performing a high precision spectroscopy of the tritium beta spectrum becay to search for the signature of the neutrino mass. It combines a high-intensity gaseous molecular tritium source with a high-resolution electrostatic spectrometer with magnetic adiabatic collimation which allowes KATRIN to reach a sub-eV sensitivity to the neutrino mass. This talk gives an overview of the latest neutrino mass results as well as results of the sterile neutrino searches based on the 25% of the total anticipated dataset of KATRIN. The talk concludes with an outlook on the future prospects of KATRIN.

Secondary track

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