Contribution ID: 109 Type: Oral

## Results, Status and Future of the KATRIN experiment and Outlook on Project 8, ECHo, and HOLMES

Tuesday, May 14, 2024 3:15 PM (25 minutes)

Massive neutrinos impart an experimental signature in the endpoint region of beta-decay spectra. The KArlsruhe TRitium Neutrino (KATRIN) experiment uses a high-activity tritium source and a high-resolution spectrometer to place the most stringent upper limit on the effective neutrino mass of  $0.8~{\rm eV/c^2}$  (90% CL). Experimental improvements and further data taking will bring KATRIN towards its final design goal of a sensitivity of  $0.2~{\rm eV/c^2}$  (90% CL). Next generation experiments aim to use novel differential detectors and alternative beta-decay sources to push the sensitivity limit below the  $0.1~{\rm eV/c^2}$  threshold.

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Session Classification: Neutrino Oscilltaion

Track Classification: Neutrino Oscillations