

## **Project KATRIN: First results and future plans.**

*Wednesday, 24 October 2018 10:00 (15)*

The Karlsruhe TRitium Neutrino (KATRIN) experiment aims to make a model-independent determination of the active electron antineutrino mass with an upper limit of 0.2 eV/c<sup>2</sup> from the analysis of Tritium beta-spectrum shape near the endpoint. Experimental set-up is fully assembled and undergoes multiple tests. Small amount of Tritium molecules were injected at June 2018 and first spectra were measured. Experimental program for the nearest future includes determination of active electron antineutrino mass with an upper limit of 1.0 eV/c<sup>2</sup> and preliminary search for sterile neutrinos with several keV mass.

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