## Abstract Submitted for the APR15 Meeting of The American Physical Society

Status of the KATRIN Neutrino Mass Experiment<sup>1</sup> DIANA PARNO, University of Washington, KATRIN COLLABORATION — The Karlsruhe Tritium Neutrino experiment (KATRIN), presently under construction in Germany, will probe the absolute mass scale of the neutrino through the kinematics of tritium beta decay, a nearly model-independent approach. To achieve the projected sensitivity of 0.2 eV at the 90% confidence level, KATRIN will use a windowless, gaseous tritium source and a large magnetic adiabatic collimation-electrostatic filter. The collaboration has now completed a second commissioning phase of the spectrometer and detector section, and construction of the tritium sections is proceeding well. We will report on the current status of the experiment and the outlook for data-taking with tritium.

<sup>1</sup>US participation in KATRIN is supported by the U.S. Department of Energy Office of Science, Office of Nuclear Physics under Award Number DE-FG02-97ER41020.

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Date submitted: 08 Jan 2015 Electronic form version 1.4