

XXIX-th International Workshop on High Energy Physics: NEW RESULTS
and ACTUAL PROBLEMS in PARTICLE & ASTROPARTICLE PHYSICS and
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KATRIN Experiment: status and perspectives 2013

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KATRIN project has a goal to set electron antineutrino mass upper limit at 0.2 eV level. Installation construction at Karlsruhe Institute of Technology (KIT) proceeds to its final stage. Inner electrodes are installed inside the main spectrometer and first background tests are launched. Windowless gaseous tritium source (WGTS) temperature stabilization was proven to provide 20 mK temperature uniformity. WGTS superconducting coils are under construction. INR RAS participates in the Rear Wall subproject. RW should control gaseous tritium electric potential uniformity inside WGTS via plasma generated by tritium beta-electrons. Set of experimental tests is planned at INR "Troitsk nu-mass" spectrometer.

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