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The search for sterile neutrinos in Troitsk ν-mass experiment

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The Troitsk ν-mass experiment was starter in the 1985 and was initially intended to search for the mass of electron neutrino. Currently it give the best direct upper limit on that mass. In 2012, after reanalyzing old data for traces of relatively light sterile neutrinos (with masses up to 200 eV), the setup was modified to search for sterile neutrinos in a wider range (up to 3 keV and in future probably up to 5 keV). The report contains a brief overview of the experiment layout, past results, some unique techniques developed in this experiment and finally, some preliminary results on keV sterile neutrinos.

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