

Reactor antineutrino measurements with DANSS experiment

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Experiments with reactor antineutrino provide a wide range of physics opportunities. Solid state scintillator detector DANSS is placed just below the core of 3.1 GWatt industrial reactor of Kalinin Nuclear Power Plant. The detector features the world highest counting rate of 5000 neutrino events per day with the cosmic rays induced background as low as 130 events per day. The talk will cover detector performance of a year and a half operation, effects of fuel burning over reactor campaign, results of the search for oscillations into light sterile neutrinos.

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