

New Trends in High-Energy Physics



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Search for the neutrinoless double beta decay of Xenon-136 and Dark Matter at KamLAND

The talk gives current status of search for new physics at the KamLAND neutrino detector located at the Kamioka mine in the western Japan. A brief overview of the world's largest neutrinoless double beta decay experiment using Xenon-136 called KamLAND-Zen 800 will be presented. A second part of the talk will be dedicated to our experimental efforts to test the DAMA/LIBRA Dark Matter observation claim using an "identical" ultra-low background detector made of radio-pure NaI(Tl) crystals.

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