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Results and future prospects of Borexino

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The Borexino experiment is a 300 t liquid scintillator detector located at the LNGS in Italy. The main task of the experiment is the real time detection of solar neutrinos. This talk will give an overview of the recent results from the first phase of the experimental program including the measurement of solar neutrinos as well as geoneutrinos.

Furthermore an overview of the SOX project is given. This project is designed to test the observed anomalies in the neutrino sector that could be explained by a fourth (sterile) neutrino. With the expected squared mass difference in the order of 1 eV^2 , this hypothesis can be tested with a MCi neutrino or a kCi antineutrino source deployed near or inside the Borexino detector.

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