

BOREXINO

Thursday, 7 May 2015 14:30 (15 minutes)

The Borexino experiment (located at Laboratori Nazionali del Gran Sasso) is the most radiopure liquid scintillator neutrino detector all over the world. Starting from 2007, the Borexino experiment provided a precision measurement of “Be7” solar neutrino flux (including also a detailed day/night modulation analysis), and gave the first detection of pep neutrinos, a detection of the B8 neutrinos at low energy threshold (3 MeV) and an important contribution to the geo-neutrino physics. In 2014, we presented the first direct observation of the low energy neutrinos coming from the “pp” fusion in the core of the Sun. The forthcoming program includes an improvement of the solar neutrino and geo-neutrino detection and an important project focused on the sterile neutrino search (SOX).

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