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Last Borexino Result

Friday, July 17, 2009 11:15 AM (20 minutes)

Borexino is a large-volume liquid scintillator detector placed in the underground halls of the Laboratori Nazionali del Gran Sasso in Italy. It is able to detect in real time neutrino interactions below 2 MeV, due to the very high radio-purity reached by the detector. The interaction rate of the 0.862 MeV 7Be neutrinos is 49±3stat±4syst counts/(day•100 ton) , in agreement with the oscillation hypothesis in the MSW Large Mixing Angle scenario. Our result is the first direct measurement of the survival probability for solar νe in the transition region between matter-enhanced and vacuum-driven oscillations.

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