

CNO and pep solar neutrino measurements and perspectives in Borexino

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The detection of neutrinos emitted in the CNO reactions in the Sun is one of the ambitious goals of Borexino Phase-II. A measurement of CNO neutrinos would be a milestone in astrophysics, and would allow to solve serious issues in current solar models. A precise measurement of the rate of neutrinos from the pep reaction would allow to investigate neutrino oscillations in the MSW transition region. I will review pep and CNO solar neutrino physics, the measurement in Borexino Phase-I and the perspectives for the new phase.

Presentation type

Section talk (10+5 min)

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