

Farewell, Borexino! Lessons from a great story

Monday, June 17, 2024 9:50 AM (30 minutes)

Abstract: This talk highlights the Borexino developments and discoveries, both from technical and scientific points of view, which can be useful for the experiments currently in preparation. From the technical point of view this experiment codified the methods for the scintillator purification and for the construction and installation of the detector which must be able to maintain the unprecedented levels of radiopurity obtained for the scintillator. From the scientific point of view, Borexino wrote a fundamental page for Sun and stars scientific knowledge, identifying the mechanisms that power them and therefore make them shine. In neutrino physics, Borexino was able to measure the electron-neutrino survival probability in a wide energy range from about 100 keV up to 15 MeV and it has been one of the two experiments that measured geo-neutrinos.

Moderator: T. Kajita

Poster prize

Given name

Surname

First affiliation

Second affiliation

Institutional email

Gender

Collaboration (if any)

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Session Classification: Welcome and Introduction