

**XVI Neutrino Telescopes Workshop  
Palazzo Franchetti - Venice, 2-6 March 2015**

## **Poster Session – Submission of Abstract**

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Title of the Poster: « Borexino: from the Sun to the Earth »

Abstract Text: (no longer than 800 characters)

Borexino is a liquid scintillator detector primary designed to observe solar neutrinos. Thanks to the intrinsic radiopurity achieved in the scintillator, Borexino already measured the rate of neutrinos coming from the *pp*, *pep*,  ${}^7\text{Be}$  and  ${}^8\text{B}$  processes which take place inside the Sun. Due to its low background level as well as its position in Italy, a nuclear free country, Borexino is also sensitive to geo-neutrinos. Borexino is leading this interdisciplinary field of neutrino geoscience by studying electron antineutrinos which are emitted from the decay of radioactive isotopes present in the crust and the mantle of the Earth. This poster will present both the solar neutrinos and the geo-neutrinos results obtained so far.

Summary: (no longer than 400 characters. Insert a tag, key word, topic, etc.)

Since May 2007, Borexino is running at the Laboratori Nazionali del Gran Sasso in Italy and is detecting solar neutrinos as well as geo-neutrinos.

Keywords: Borexino, solar neutrinos, geo-neutrinos

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Kindly follow the instructions above and send the abstract in a .pdf file to the local organizing committee e-mail address by January 30<sup>th</sup>.

Response will be sent to the submitter's e-mail address indicated above, by February 10<sup>th</sup>.

Posters will be exhibited all week long at the workshop site. Discussion will take place on Thursday 5<sup>th</sup>, during the Poster Party.

At least one author must be available for "question-answer" time.

Best 3 posters will be awarded on Friday 6<sup>th</sup>, during the closing plenary session of the workshop.