

LABORATORI NAZIONALI DEL GRAN SASSO

SEMINAR ANNOUNCEMENT

On **March 5, 2008** at **3:00 pm**, **Aldo Ianni** from **LNGS - INFN** will give a seminar entitled:

“Commissioning, status, first results and perspectives of Borexino”

Abstract:

Borexino is a low count rate detector and its main research goal is the search for sub-MeV solar neutrinos. Borexino has been taking data since May 2007 after the detector filling was finished. The basic idea on how to measure sub-MeV solar neutrinos in Borexino and related difficulties is reviewed. In the talk the commissioning of the Borexino detector is presented with emphasis to the strategy adopted to reduce the background. First results on backgrounds and on the ${}^7\text{Be}$ solar neutrino rate are presented. The Borexino physics case and perspectives in the short and long term will be discussed.

(“B. Pontecorvo” room)