

LABORATORI NAZIONALI DEL GRAN SASSO

SEMINAR ANNOUNCEMENT

On **December 4, 2007** at **14:30**, **A. Grillo** from **INFN - LNGS** will give a seminar entitled:

**“The beginning of charged Cosmic Rays Astronomy?
First results from the Pierre Auger Observatory”**

Abstract:

The Pierre Auger Observatory is an experiment built (the south site) and in planning (north site) to try to solve the problems of the highest energy Cosmic Rays: origin, nature and propagation. The south site has taken data during the construction, and has collected now more than an year of its full aperture. I will summarize the most important results presented at the 30th ICRC and present in detail the results of the search of association with astrophysical extragalactic sources. A correlation has been found at an (a priori)99% confidence level with the positions of nearby ($D < 75$ Mp) AGNs. I discuss the implications of this result. We are probably witnessing the birth of charged Cosmic Ray Astronomy, and the next years will be exciting.

(“B. Pontecorvo” room)