

LABORATORI NAZIONALI DEL GRAN SASSO

SEMINAR ANNOUNCEMENT

On **January 14, 2008** at **2:30 pm**, **F. Girelli** from **SISSA, Trieste** will give a seminar entitled:

**“Observables in (quantum)
General Relativity and (quantum)
reference frame”**

Abstract:

Observables in (quantum) General Relativity can be constructed from (quantum) reference frame. A physical observable is then a relation between a system of interest and the reference frame. We present a toy model and study an example of such quantum relational observables. We show how the intrinsic quantum nature of the reference frame naturally leads to some interesting new physics, that could be related to existing theories such as Deformed Special Relativity.

(“B. Pontecorvo” room)