

**LABORATORI NAZIONALI DEL GRAN SASSO**

**SEMINAR ANNOUNCEMENT**

**L. R. Sulak**

*Boston University and CERN*

---

**Observation of the first  
fundamental boson and  
future prospects**

*This will be a general talk addressing three immediate issues:*

- 1) The latest analysis of the Higgs search at CMS using the totality of '11 and '12 data, focusing on the two channels with highest expected signal-to-noise ratio.*
- 2) The upgrades to the detector scheduled for 2013-14 to enhance CMS sensitivity.*
- 3) The prospect of constructing an electron "circular-linear" collider on top of the LHC ring for precision studies of the new low-mass object.*

---

**JULY 19, 2012 – 2:30 PM**  
**LNGS - “B. PONTECORVO” ROOM**