

**LABORATORI NAZIONALI DEL GRAN SASSO**

**SEMINAR ANNOUNCEMENT**

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***Origin of galactic  
cosmic rays: modern  
aspects of a 100 year  
old problem***

*This year we celebrate the hundred years anniversary of the discovery of Cosmic Rays (CRs) by Viktor Hess. Several aspects of the problem have been understood and several others appear to be still unclear and in some other cases the traditional view seems to be challenged by recent observations. I will summarize here some of the successes and problems of the theories of CR acceleration and propagation, in the light of recent measurement of energy spectrum and composition as well as gamma ray observations from Earth and Space.*

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**DECEMBER 20, 2012 – 2:30 PM**  
**LNGS - “B. PONTECORVO” ROOM**