

**LABORATORI NAZIONALI DEL GRAN SASSO**

## **SEMINAR ANNOUNCEMENT**

On **December 16, 2009**, at **2:30 pm**, **Enrico Salvo** from **INFN - LNGS** will give a seminar entitled:

### **“VHPC, a proposal for batch computing on virtual hosts”**

#### **Abstract**

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Host virtualization is a technology that gained much ground in the latest years, and is changing radically the way service shipment on local and geographical networks is seen. The simplicity of administration and independence from hardware guaranteed by the use of Virtual Machines saves much time for administrators and makes the deployment of robust IT systems tailored on the contingent needs easier. Thanks to nowadays virtualization technologies, efficiency loss can be minimized and as such virtualization can be used for high performance-requiring computing tasks. In high-energy physics, different research groups need different computing environments: different operating systems, development platforms and dedicated software. Frequently this leads research groups to the creation of separate computer clusters managed by non-dedicated personnel that can't be continuously on the premises, with consequent administration problems. The VHPC (Virtual High Performance Computing) project aims to give to research groups the possibility of having personalized computational nodes in a centrally administered batch-oriented cluster, with a very short setup time. The seminar will be oriented to the end user, the implementation of VHPC will be described in detail, together with the advantages and some usage notes.

**(“B. Pontecorvo” room)**