

**LABORATORI NAZIONALI DEL GRAN SASSO**

**SEMINAR ANNOUNCEMENT**

On **June 14, 2007** at **14:30**, **Jurgen Ulbricht** from **ETH Zurich** will give a seminar entitled:

**“Search for particles and anti-particles in space with the AMS spectrometer”**

Abstract:

**In the introduction the hardware of the Alpha Magnetic Spectrometer AMS-01 flown in space on the space shuttle mission STS-91 will be discussed. I will focus on the technique to measure the momentum, energy, mass and charge of the particles. The knowledge of these parameters enabled the data analyzing group of AMS-01 to identify particles and anti-particles. The main experimental results about the search for anti-Helium, anti-Protons and the charged particles trapped in the earth magnetic field will be presented. Possible consequences of the so far negative experimental result of the anti-Helium search on the Big Bang model will be examined. Finally a brief outlook about the hardware of the AMS-02 spectrometer will be presented.**

**(“B. Rossi” room)**