

**Dottorato di Ricerca in Fisica dell'Università degli Studi di Messina**

19 Gennaio 2011, ore 15.00, Aula E. Majorana, Dip.to di Fisica  
V.le F. Stagno d'Alcontres 31, Messina

**Prof. Józef SURA**

Heavy Ion Laboratory (HIL), University of Warsaw, Poland

Seminar title:

**The HIL Cyclotron and associated ion optics**

**Abstract**

The isochronous cyclotron of the Heavy Ion Laboratory of Warsaw accelerates ions with mass to charge ratio in the range of  $A/Q=(2-6)$  and energies up to 30 MeV per nucleon.

The design of this setup includes many of the accelerator physics and ion optics elements.

These elements beginning with the ECR ion source, injection, acceleration, extraction, beam lines, till the experimental setups will be discussed.