



UNIVERSITÀ DEGLI STUDI DI MILANO  
SCUOLA DI DOTTORATO IN FISICA  
ASTROFISICA E FISICA APPLICATA

# 2012/2013 PHYSICS COLLOQUIA

The presentation will concentrate on recent applications with exciting results of Penning traps in atomic and nuclear physics with cooled and stored exotic ions. These are high-accuracy mass measurements of short-lived radionuclides, g-factor determinations of the bound-electron in highly-charged, hydrogen-like ions and g-factor measurements of the proton and antiproton. The experiments are dedicated, e.g., to astrophysics studies and to tests of fundamental symmetries in the case of mass measurements on radionuclides, and to the determination of fundamental constants and a CPT test in the case of the g-factor measurements.

**28MAY2013**

**KLAUS BLAUM**

*Max-Planck-Institut für Kernphysik, Heidelberg, Germania*

**Fundamental Tests of Nature with Cooled and Stored Exotic Ions**

Gli incontri si terranno alle **ore 15:00**  
nell'**aula A** del **DIPARTIMENTO DI FISICA**  
via Celoria 16 | 20133 MILANO | Tel. +39 02 50317740  
<http://phd.fisica.unimi.it> | [phd@fisica.unimi.it](mailto:phd@fisica.unimi.it)