

Physikalisches Kolloquium



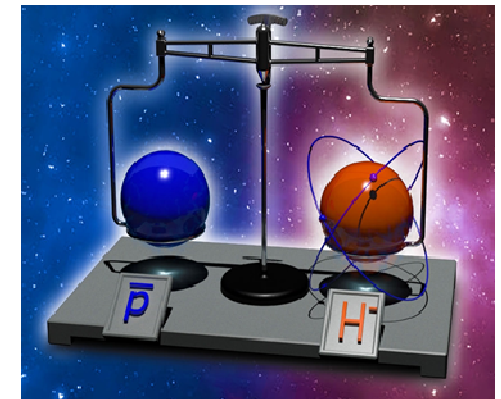
Thursday, 07.12.2017, 17:15, HS 100
Reception with coffee & cookies 16:45
 (For university staff: please bring your own cup for sustainability reasons)

Prof. Dr. Klaus Blaum, MPI for Nuclear Physics, Heidelberg:

Measuring the World – Precision Measurements of Fundamental Properties of Atoms and Nuclei

Abstract

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 to nuclear-, neutrino- and astrophysics studies in the case of mass measurements on radionuclides, and to the determination of fundamental constants and a CPT test using g -factor measurements.



All of you interested in physics are cordially invited!