

# Fundamental tests of nature with cooled and stored exotic ions



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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.

Wednesday

December 7

4:00 P.M.

Rm 118 NSH

Refreshments  
in Rm 202 NSH  
@ 3:30 pm

