Poster Session #A
Laboratory tests of gravitation

A07

Production of Antihydrogen in pulsed mode

Antoine Camper (University of Oslo)

We report on the first production of antihydrogen in pulsed mode. Using a charge exchange reaction between a plasma of cold antiproton and a pulse of Rydberg positronium atoms, the AEgIS collaboration demonstrated the first production of antihydrogen with a precision on the time when the antiatoms are formed of a few hundreds of nanoseconds. We will present a detailed analysis of the antihydrogen production and outline the perspectives of this first step towards a test of the validity of the Weak Equivalence Principle for antimatter within the AEgIS collaboration.