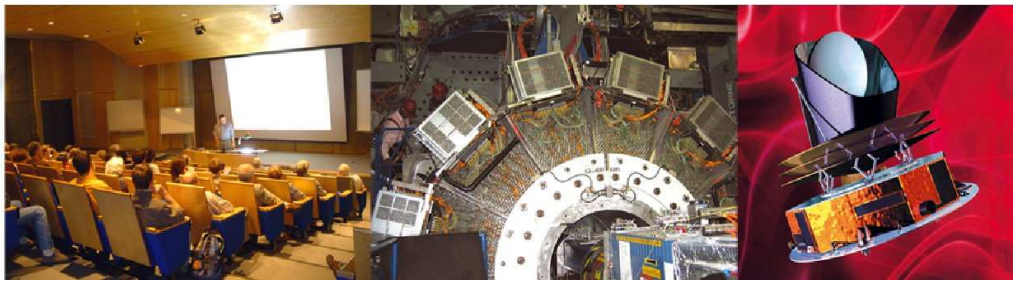
LABORATOIRE DE L'ACCÉLÉRATEUR LINÉAIRE



Séminaire du Laboratoire de l'Accélérateur Linéaire

Jorg Pretz

RWTH Aachen University

Mardi 20 Mai 2014 à 11 :00

Electric Dipole Moment Measurements at Storage Rings

Electric Dipole Moments (EDM) of elementary particles are considered as one of the most powerful tools to discover CP violation beyond the Standard Model and to find an explanation for the dominance of matter over anti-matter in our universe. Up to now experiments concentrated on neutral systems (neutron, atoms, molecules). Storage rings offer the possibility to measure EDMs of charged particles by observing the influence of the EDM on the spin motion. The Cooler Synchrotron COSY at the Forschungszentrum Jülich provides polarized protons and deuterons up to a momentum of 3.7 GeV/c and is thus an ideal starting point for such an experimental programme. Plans for measurements of charged hadron EDMs and results of first test measurements will be presented.

Salle 101 du LAL - Bât. 200, Orsay

Thé et café seront servis 1/4h avant le séminaire

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