



SPEAKER: Yannis K. Semertzidis (Korea Advanced Inst of Science and Technology (KAIST))

TITLE: **Storage ring proton EDM experiment**

DATE: Mon 09/02/2015 11:00

PLACE: Council Chamber

ABSTRACT

I will give a overview of the present status of the electric dipole moment (EDM) experiments and then I will focus on the proton EDM method to be performed in an all-electric storage ring. In storage rings one has the chance to probe the EDM of the proton with unprecedented sensitivity of 10^{-29} e-cm.</p></div>

The strength of the method originates from the fact that there are high intensity polarized proton beams available and the fact that the so-called geometric phase systematic error background cancels with clock-wise and counter-clock-wise storage possible in electric rings. The ultimate sensitivity of the method is 10^{-30} e-cm. At this level it will either detect a non-zero EDM or it will eliminate electro-weak baryogenesis.

Organised by: C. Lourenco, M. Mangano, G. Unal.....
Tea and Coffee will be served at 10h30