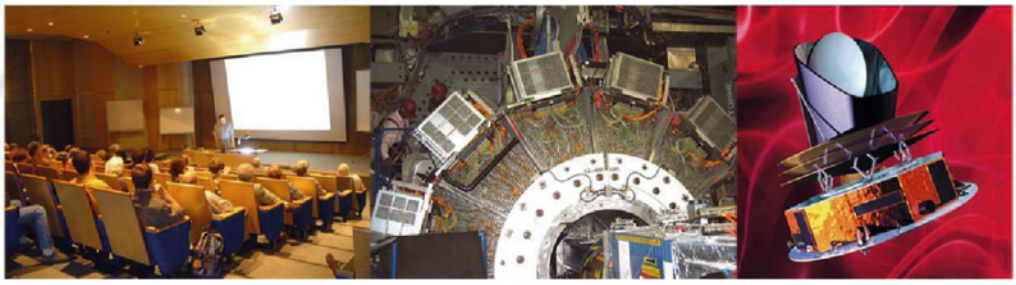
LABORATOIRE DE L'ACCÉLÉRATEUR LINÉAIRE



Séminaire du Laboratoire de l'Accélérateur Linéaire

Christos Charmousis

LPT Orsay

Mardi 18 Mars 2008 à 11 :00

Modifying General Relativity

Recent cosmological data predict an actual acceleration of the universe. This opens up the possibility that general relativity is modified at very large distances, given typically by the inverse Hubble scale. We will discuss the possible explanations to late-time acceleration, in particular that of a tiny cosmological constant and dark energy models, their major advantages and drawbacks. Then we will examine modified gravity theories, their main characteristics, their theoretical and experimental setbacks. We will end our discussion with maybe the most well-known, consistent and simple modification, Brans-Dicke theory and question whether higher order gravity corrections can modify usual very restrictive solar system constraints.

Salle 101 du LAL - Bât. 200, Orsay

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

Responsables : S. Henrot-Versillé (versille/lal.in2p3.fr) - S. Plaszczynski (plaszczy/lal.in2p3.fr)
http ://www.lal.in2p3.fr