



Irfu
Institut de recherche
sur les lois fondamentales
de l'Univers

**Séminaire
DPhP**

Lundi 22/05/2017, 11h00

CEA-Saclay Bât. 141, salle André Berthelot

ACTPol results and prospects for CMB S4

THIBAUT LOUIS

IAP et Institut Lagrange, Paris

In this talk, I will present the temperature and polarization angular power spectra measured by the Atacama Cosmology Telescope Polarimeter (ACTPol). These spectra, and the spectra measured with the MBAC camera on ACT from 2008-10, have been used in combination with Planck and WMAP data to estimate cosmological parameters from the temperature, polarization, and temperature-polarization cross-correlations. I will also discuss the futur of ground based CMB experiments and I will focus in particular on the science that can be done with the forecoming CMB S4 cluster catalog which will contain 10^5 objects.

Le café sera servi 10 minutes avant.

NB : La présentation d'une pièce d'identité est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance Martine Oger, tél. 01 69 08 23 50, e-mail : martine.oger@cea.fr. (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).