



Séminaire organisé par

**AIM & Le service d'Astrophysique
CEA/DSM/Irfu**



PLANCK AND THE LARGE SCALE STRUCTURES

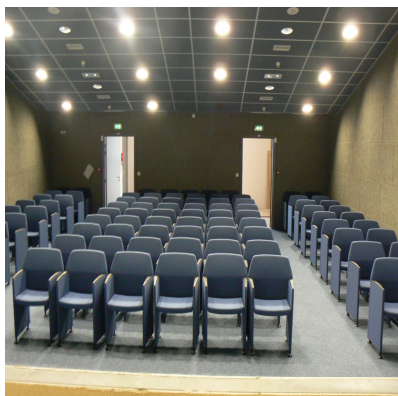
HERVÉ DOLE

(IAS, Orsay)

The Planck satellite observed the whole sky during nearly 2.5 years to measure the Cosmic Microwave Background with unprecedented precision. We have recently released the data from the mission's first 15 months (the final data release will take place in one year). After introducing some open questions in cosmology, I will present the main results regarding cosmological parameters, inflation, and the formation of structures. I will then highlight the richness of the publicly available source catalog (galaxies and galaxy clusters) and focus on the search for the early galaxy (proto-)clusters and high-z submillimeter galaxies, which are studied via the identification of "cold sources" in the Cosmic Infrared Background. In particular, I will show results from follow-up observations of these interesting sources with the Herschel satellite. Finally, I will discuss future analyses of the Planck data from the coming year including prospective synergies with the Euclid mission.

mardi 3 décembre novembre 2013

10h00 Salle Galilée bât 713 C - Orme des Merisiers



Le petit-déjeuner précèdera le séminaire

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