



Département d'Astrophysique

Séminaires du DAp

Jeudi 11/10/2012, 11:00

Bat 713, salle de séminaires Galilée , CEA Saclay, Orme des Merisiers

**A.DEY**

NOAO, Tucson, USA

## **LYMAN ALPHA AND GALAXY FORMATION: AN OBSERVER'S PERSPECTIVE**

Lyman alpha has long been used as a signpost of young galaxies in the distant Universe. I will describe some recent results and work in progress on two ongoing searches for Lyman alpha emission at "low"-redshift ( $z \sim 2$ ) for Lyman alpha "blobs" (giant, 100-kpc clouds of glowing, galaxy-forming gas) and much lower mass Lyman alpha emitters, which may be the building blocks of larger galaxies. I will also discuss some of the properties of the new blobs (one of which is a good candidate for an extremely low-metallicity galaxy forming environment) and report on an ongoing study of the large-scale environments of the blobs. Finally, I will talk briefly about the BigBOSS project planned for the Mayall telescope, a cost-effective dark energy project for this decade.

---

Contact : -