



Lrfu

Institut de recherche
sur les lois fondamentales
de l'Univers

**Séminaire
SPP**

Lundi 05/01/2015, 11h00

CEA-Saclay Bat 141, salle André Berthelot

The Large High Altitude Air Shower Observatory (LHAASO) : Science goals and expected performances

TIINA SUOMIJÄRVI

IPN Orsay

The Large High Altitude Air Shower Observatory (LHAASO) is designed to search for cosmic-ray sources by the measurement of gamma rays up to 1 PeV, to survey the whole northern sky for gamma-ray sources above 300 GeV, and to study cosmic-ray physics from 10 TeV to a few hundreds of PeVs. The observatory will be located at high altitude (4400m, probable site in Sichuan province, China) and will include different detectors with known techniques, each of them being optimized for one of these goals. The LHAASO observatory is complementary to existing detectors or projects in this field and can bring insight to several fundamental open questions in the understanding of high-energy cosmic objects and phenomena.

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).