

Lundi 30 janvier 11h00

CEA-Saclay Bat 141, salle André Berthelot

Neutrino astronomy with IceCube and beyond

MAREK KOWALSKI

Univ. Bonn

The construction of IceCube, a kilometer-scale neutrino detector at the South Pole, has recently been completed. The detector has an unprecedented sensitive to high energy neutrinos of astrophysical origin. After a general introduction I will focus on the search for neutrino emission from Gamma-Ray Bursts and Supernovae, two of the prime candidate sources of high energy neutrinos. I will present first results of a novel optical follow-up program that significantly improves the sensitivity of IceCube to Supernovae and other transient sources. In the last part of the talk I will discuss the planed extension of IceCube towards lower energies.

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 Emilie Chancrin, tél. 01 69 08 23 50, e-mail : emilie.chancrin@cea.fr. (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).