

Lundi 17 mai 11h00

CEA-Saclay Bât 141, salle André Berthelot

The Pierre Auger Project : Detection Systems and Science Results

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Tandar -CNEA/Conicet

A review of the Auger Observatory and its detection systems will be presented. The current status of its scientific results including spectrum, anisotropy in arrival directions, chemical composition analyses and limits on neutrino and photon fluxes will be discussed. Auger has started its construction second phase which encompasses new telescopes, AMIGA (Auger Muons and Infill for the Ground Array) and antenna for radio detection of cosmic showers. Details on AMIGA will be discussed, a project consisting of 85 detector pairs each one composed of a surface water-Cherenkov detector and a buried muon counter. Design parameters and performance requisites will be outlined. Construction of the first muon detector, associated software and hardware, and first analyses will be presented. Some preliminary results on the performance of the 750 m infill array of surface detectors will be shown.

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