

Lundi 12 septembre 11h00

CEA-Saclay Bât 141, salle André Berthelot

The CoGeNT Experiment : A Neutrino and Astro-particle Physics Research Program

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As is typical in particle physics, the development of a new detector technology opens up many new avenues of research. The advent of the PPC Germanium detector, the core technology of the CoGeNT experiment continues this trend. I will discuss briefly the history of the project, beginning with efforts to measure coherent neutrino-nucleus scattering. The role of the PPC detectors in the Majorana zero-neutrino double-beta decay experiment will also be explained. Finally, I will cover the recent developments of the observation of a large excess of nuclear recoils consistent with interactions from light WIMPS, as well as the subsequent suggestion of an annual modulation of these events.

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).