CENTRE D'ETUDES NUCLÉAIRES DE BORDEAUX-GRADIGNAN

Vendredi 28 Août 2015

à

11H

Un café sera servi à partir de 10h45

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Searching for physics beyond the Standard Model via nuclear beta decay

The Standard Model is a cornerstone of modern physics, and has answered many important questions about the workings of our universe. Despite its success, however, many questions such as the excess of matter over anti-matter, or whether the weak interaction is of a purely V-A character, currently remain unanswered. While accelerators such as the LHC search for new particles directly at the energy frontier, a complimentary search is underway at the precision frontier, where high-precision measurements are performed in order to rigorously test Standard-Model predictions.

In this seminar I will highlight some of the precision experiments and techniques in beta decay which are being pursued by the weak interactions group at K.U. Leuven with the goal of searching for beyond Standard-Model physics.

Salle des Séminaires du CENBG

Le Haut Vigneau - BP 120 - F-33175 Gradignan Cedex