

Lundi 6 juin 11h00

CEA-Saclay Bât 141, salle André Berthelot

Ruling out a fourth generation using limits on hadron collider Higgs signals

JACK GUNION

UC Davis

We consider the impact of a 4th generation on Higgs to two-photon and WW,ZZ signals and demonstrate that the Tevatron and LHC have essentially eliminated the possibility of a 4th generation if the Higgs is SM-like and has mass below 200 GeV. We also show that the absence of enhanced Higgs signals in current data sets in the two-photon and WW,ZZ final states can strongly constrain the possibility of a 4th generation in two-Higgs-doublet models of type II, including the MSSM.

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