Irfu
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Séminaire DPhP

Lundi 15/10/2018, 11h00

CEA-Saclay Bât. 141, salle André Berthelot

Precision EW measurements at hadron colliders

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The wealth of very precise data collected by the Tevatron and LHC experiments is offering the possibility of new high-precision tests of the Standard Model. In this talk I will review the status of the determination of two important pseudo-observables of the EW sector : the W boson mass and the sinus of the weak mixing angle. I will discuss the challenges that have to be faced at the LHC to achieve results competitive with those from LEP and from the Tevatron. Eventually, I will briefly summarize the impact of these high precision studies in view of the searches for signals of physics beyond the Standard Model.

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 Martine Oger, tél. 01 69 08 23 50, e-mail : `martine.oger@cea.fr`. (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).