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## Latest results and prospects for Higgs searches at the Tevatron

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(D0)

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A Higgs boson is needed to explain how the W and Z bosons of the weak force acquire mass and to consistently give masses to the fermions. The D0 and CDF experiments at the Fermilab Tevatron accelerator have each collected over  $3 \text{ fb}^{-1}$  of data and developed advanced analyses which hunt for this elusive new particle. Searches for the Higgs in the context of the Standard Model, the MSSM, and other models will be discussed. Updated results from the Moriond '08 conference will be reported, where available. Finally, the projected sensitivity for the next two years, and the new techniques being developed to achieve this sensitivity, will be shown.

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**Lundi 10 mars à 15h**

**Salle André Berthelot, bât. 141**

Le café sera servi 15 minutes avant

*NB : La présentation d'une carte d'identité ou d'un passeport est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance de leur visite Emilie Chancrin, tél. 01 69 08 23 50 (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).*

