



Séminaire du Laboratoire de l'Accélérateur Linéaire

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Fermilab

Jour et salle inhabituels

Vendredi 27 Mars 2009 à 11 :00

CDF flavor physics

Discrepancies between theory and measurements of lower-energy quantities may reveal the contributions of non-standard model (SM) particles prior to their direct observation at the Large Hadron Collider. Historically, this "indirect" approach has been rewarding, especially in the quark-flavor sector. The CDF experiment at the Tevatron proton-antiproton collider has access to the world's largest samples of charm and beauty hadrons, which provide rich experimental information both competitive and complementary to that from dedicated flavor facilities. This successful program is now reaching its maturity and begins to challenge the SM, even though only less than half of the data expected by the end of Run II have been analyzed. I review recent CDF flavor physics results, focusing on those that hint at (or are more sensitive to) departures from the SM : the CP-violating phase in B_s mixing, CP violation in charmless B decays, and rare decays. Discoveries of new (or exotic) hadrons are also presented.

Auditorium Pierre Lehmann du LAL - Bât. 200, Orsay

Thé et café seront servis 1/4 h avant le séminaire