



Séminaire du Laboratoire de l'Accélérateur Linéaire

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Jour et lieu inhabituels

Jeudi 7 Avril 2011 à 11 :00

Precision measurements of the proton structure and physics at the LHC

Precision measurements at HERA enable accurate proton structure determination from a QCD fit analysis, which is relevant to the LHC kinematic range. However, recent studies indicate that measurements at the LHC (i.e. processes for the Higgs and Beyond Standard Model physics) are still limited by the knowledge of the proton structure. Therefore various studies are needed to understand this uncertainty. Many of those have been performed within the HERA QCD framework to address this issue based on innovative methods and very precise and clean e-p scattering data. The predictions based on the HERA data are also compared to $p - \bar{p}$ processes at Tevatron, and used for predictions of the p-p processes at the LHC. Moreover, time has come when these predictions are confronted with the recent LHC measurements.

Auditorium Pierre Lehmann du LAL - Bât. 200, Orsay

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



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