EP Seminar

SPEAKER: BODEK, A. (University of Rochester (US))

TITLE: **Combination of the CDF and D0 effective leptonic electroweak mixing angles and indirect measurement of the W mass.**

DATE: Tue 31/01/2017 11:00

PLACE: 500-1-001 - Main Auditorium

ABSTRACT

CDF and D0 have measured the effective leptonic weak mixing angle sin2T_lept_eff , using their full Tevatron datasets. I describe the techniques used in CDF and D0 analyses and the Tevatron combination of these two measurements. I also discuss the Zfitter standard model-based inference of the on-shell electroweak mixing angle sin2T_W(on-shell) , or equivalently, an indirect measurement of the W-boson mass. The combination of CDF and D0 results yields: sin2T_lept_ eff = 0.23179 ± 0.00035,
sin2TW (on shell) = 0.22356 ± 0.00035
M_W (indirect) = 80.351 ± 0.018 GeV/c2.

Organised by: C. Lourenço, G. Unal.....Refreshments will be served at 10h30