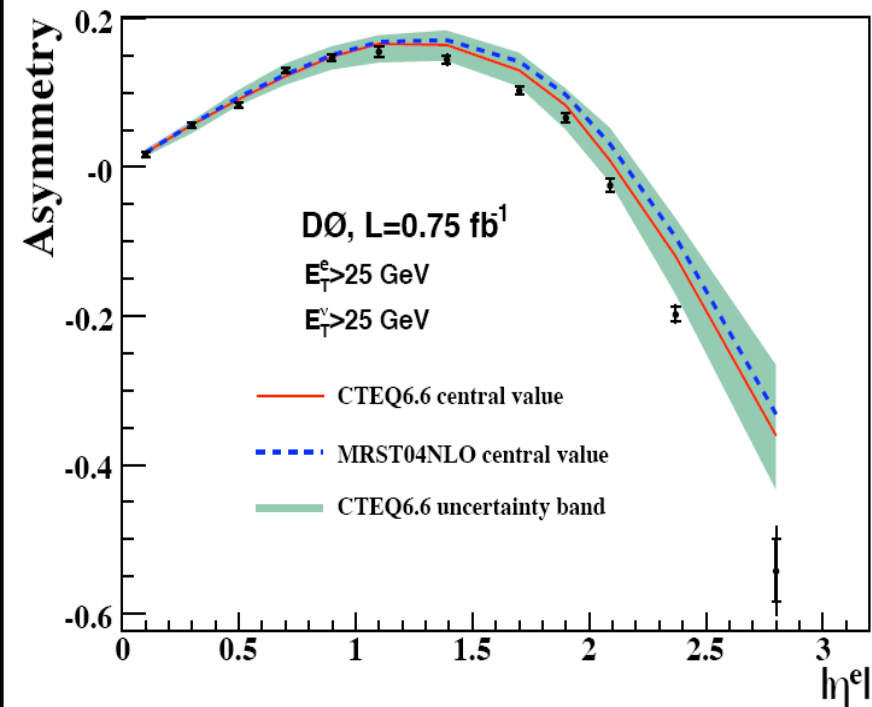


CU Physics Department Particle Seminar

Wednesday, October 29, 2008 705 Pupin Hall 1:00 PM



"Measurement of the electron charge asymmetry in $p\bar{p} \rightarrow W+X \rightarrow e\nu+X$ events"



We present a measurement of the electron charge asymmetry in $p\bar{p} \rightarrow W+X \rightarrow e+\nu+X$ events at a center of mass energy of 1.96 TeV using 0.75 fb^{-1} of data collected with the D0 detector at the Fermilab Tevatron Collider. The asymmetry is measured as a function of the electron transverse momentum and pseudorapidity in the interval $(-3.2, 3.2)$ and is compared with expectations from next-to-leading order calculations in perturbative quantum chromodynamics. These measurements will allow more accurate determinations of the proton parton distribution functions.

David Khatidze, Columbia University - Meet the Speaker at 3pm in 705 Pupin