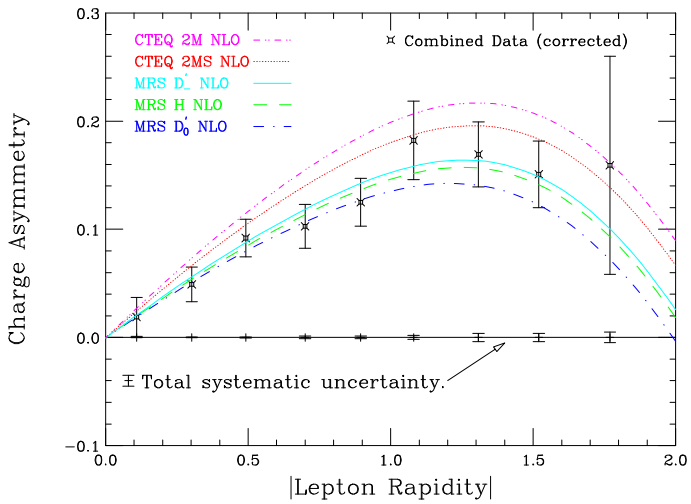
M_W - $P_T(W)$ spectrum and pdf's

$\star$ CDF W-Asymmetry data constrains pdf's

$\rightarrow$ Allow W-Asymmetry to vary by $\pm 1\sigma$



Obtain new parameterizations in which pdf & input spectrum - constrained by data - were varied simultaneously $\rightarrow$

error due to theory

($P_T(W)$ spectrum and pdfs): $\sigma(M_W) = 65$ MeV