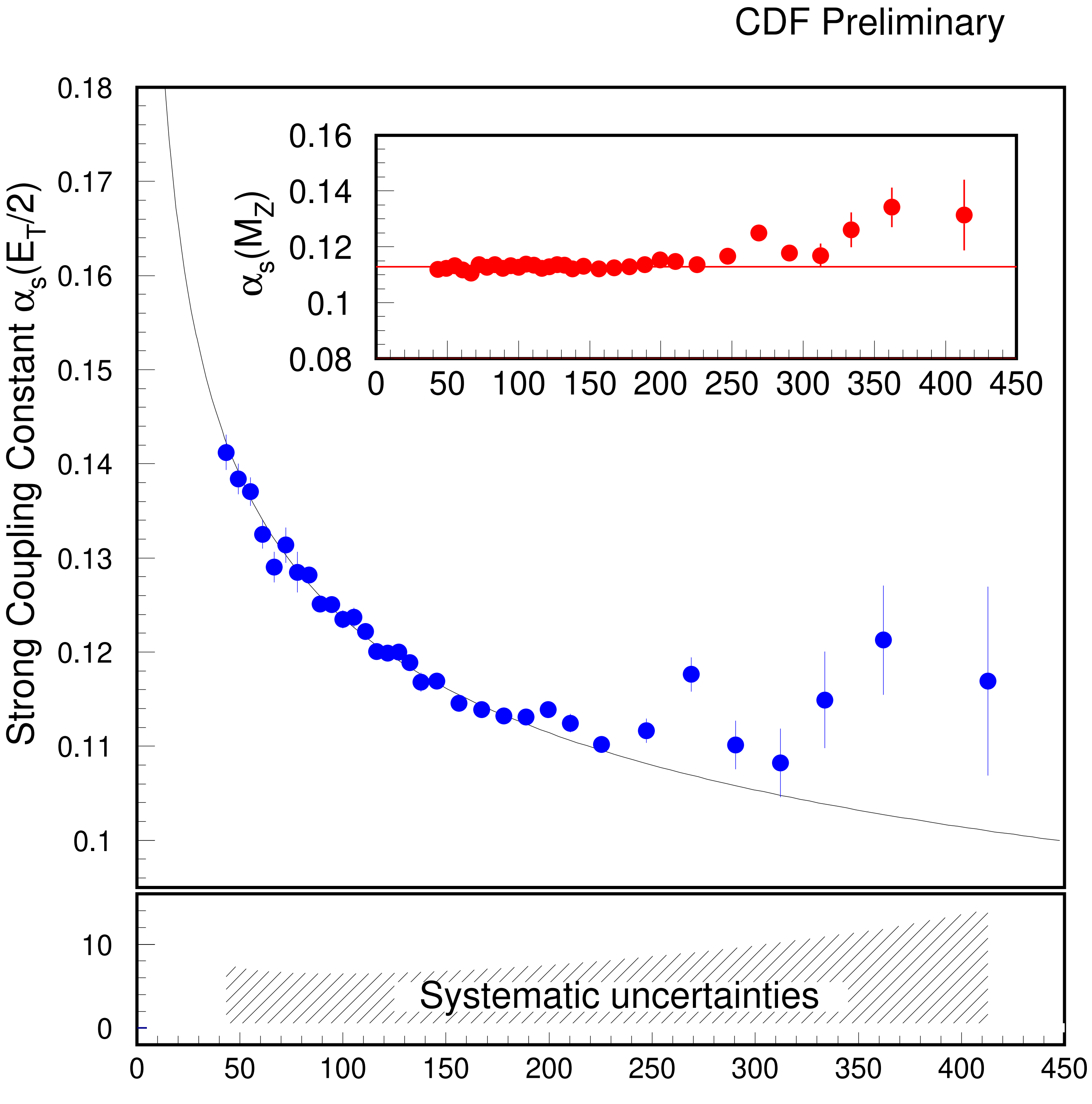

FIG. 1. Strong coupling constant as a function of E_T measured using CTEQ4M parton distributions for $\mu_R = E_T/2$. The curved line corresponds to the NLO QCD predictions for running of α_s with $\alpha_s(M_Z)$ equal to the experimental average value of 0.1129. The shaded area corresponds to the experimental systematic uncertainties for $\alpha_s(E_T/2)$. The inset shows values of $\alpha_s(M_Z)$ for the E_T spectrum, the line corresponds to the weigted average.

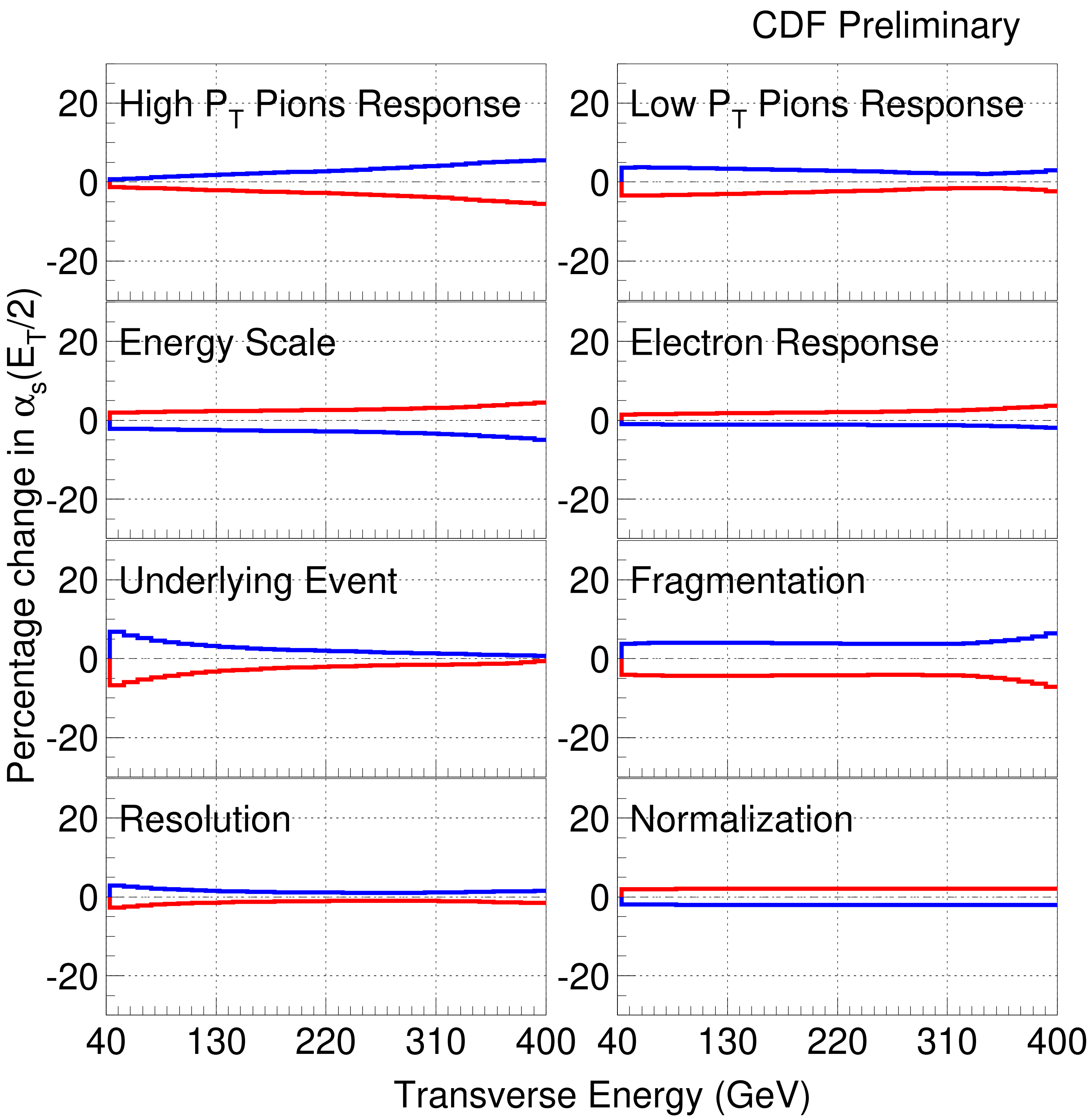

FIG. 2. Experimental systematic uncertainties for α_s measurement with CTEQ4M as input PDF and $\mu_R = E_T/2$.

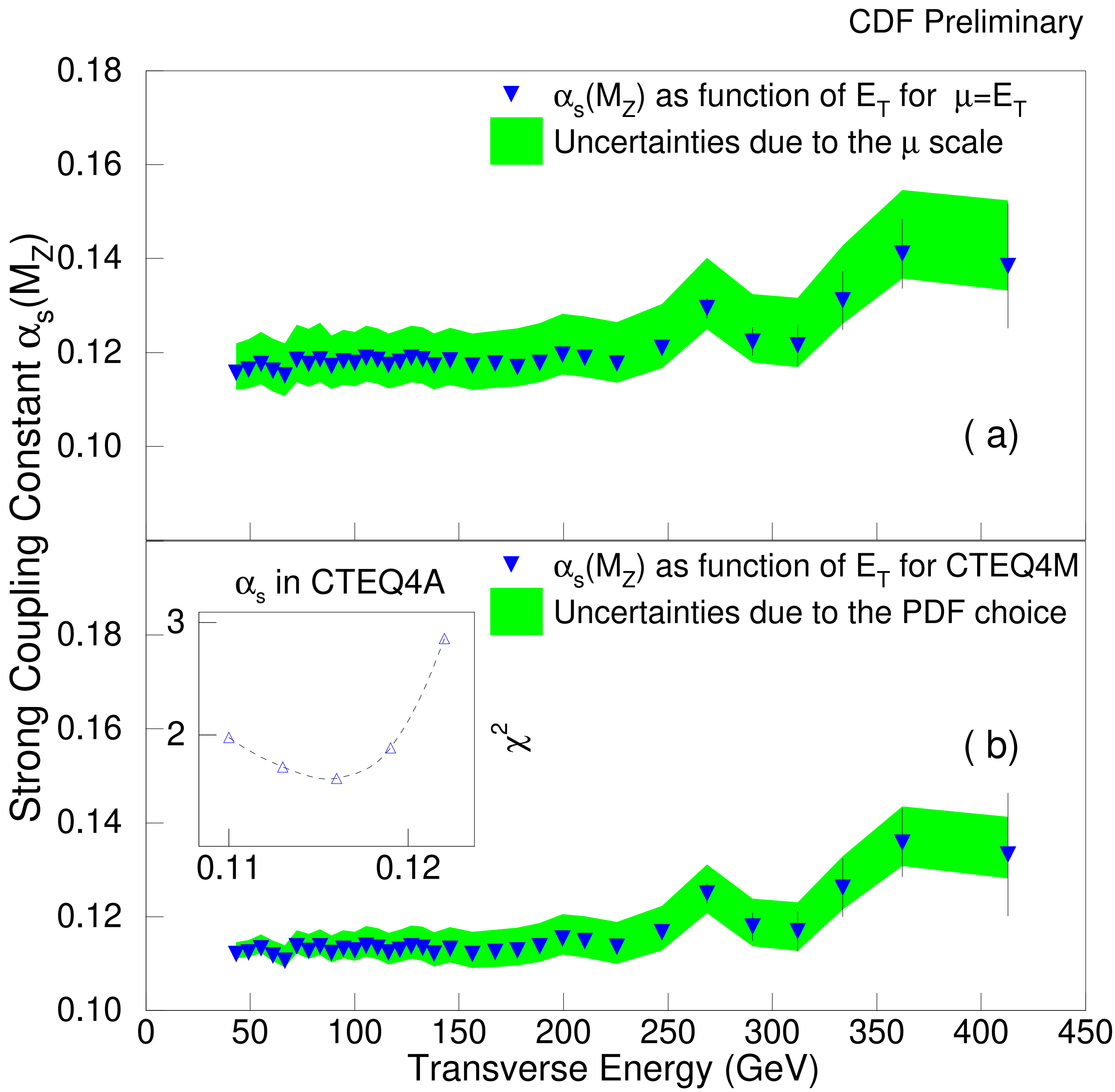

FIG. 3. Uncertainties due to the renormalization scale (a) and parton distribution functions (b). The inset shows the variation of χ^2 for the CTEQ4A PDF family, with minimal value corresponding to CTEQ4M PDF set (input α_s=0.116).