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Soft QCD Results from CDF

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The CDF Collaboration is working on a systematic study of the underlying event, Minimum Bias events, diffractive processes, and other non-perturbative observables. Such measurements have a two-fold goal of increasing our understanding of soft QCD - mainly through comparison with MC generators - and of reducing the uncertainties on backgrounds for many high-pt analyses. We review the latest underlying event and min bias results and discuss the associated problematics with the idea of establishing a solid baseline for the LHC experiments. These measurements include study of the underlying event in Drell-Yan and dijet events, study of particle multiplicity and inclusive differential cross sections in minimum bias events, and inclusive differential (in PT) cross sections of centrally ($|\eta| < 1$) produced lambdas, cascades and omegas. We also present recent results on diffraction obtained by the CDF collaboration. The single-diffractive dijet and W/Z production are discussed. The first experimental observation of exclusive dijets, exclusive χ_{c0} mesons, and search for exclusive diphotons are discussed. We also present results from a study of central rapidity gap production in soft and hard diffractive events.

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