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Electroweak Gauge-Boson and Higgs Production at Small q_T : Infrared Safety from the Collinear Anomaly

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We discuss the differential cross sections for electroweak gauge-boson and Higgs production at small and very small transverse momentum q_T .

Large logarithms are resummed using soft-collinear effective theory.

The collinear anomaly generates a non-perturbative scale q^* , which protects the processes from receiving large long-distance hadronic contributions. A numerical comparison of our predictions with data on the transverse-momentum distribution in Z-boson production at the Tevatron and LHC is given.

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