

SEMINARIO DEL DEPARTAMENTO DE
FÍSICA TEÓRICA

11 de Diciembre de 2009, 15 h.,
Módulo 08 (C-XVI) Sala de Grados, 2nd floor

Dynamical Parton Distribution Functions

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Abstract: The new generation of dynamical LO, NLO and NNLO parton distributions is presented. Results for the longitudinal structure function of the proton and the role of heavy quark flavors at high-energy colliders are discussed. Finally predictions for weak gauge and Higgs boson production at hadron colliders are given at NNLO of QCD.