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Production of heavy flavors in ep collisions at HERA

The production of hadrons containing a heavy quark is one of the most sensitive test of QCD. At HERA, besides the investigation of production models incorporating multi-scale dependence, the production of heavy flavored hadrons is used to constrain the parton distribution functions, with important implications for LHC physics. Recent measurements by H1 and ZEUS experiments have been obtained using the HERA II data set and various tagging techniques (leptons, lifetime) for both photo-production and deep-inelastic scattering. The results are in agreement with theoretical calculations. The DIS data have been combined recently to obtain a precise determination of the charm content of the proton and the impact of the combined data on the parton distribution functions have been investigated.

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