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Heavy flavour production at HERA

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Measurements of heavy-quark production at HERA constrain the structure of the proton, and have provided valuable indications of perturbative QCD. Several measurements of heavy quark production in deep inelastic scattering and photoproductions regimes, using different decay modes, are presented, both new individual measurements from the H1 and ZEUS collaborations, as well as combined data. QCD fits to the data lead to measurements of the charm and beauty masses and also provide precise predictions for e.g. W and Z production at the LHC.

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