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Heavy-quark production in deep-inelastic scattering

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We present a determination of the running charm-quark mass in the $\overline{\text{MS}}$ scheme in framework of global analyses of the proton structure using recent HERA data of charm production cross section measurements. A crucial prerequisite for this task are QCD precision predictions to higher orders which require the choice of a scheme for the description of heavy-quark production in deep-inelastic scattering. We present a comparative study of fixed flavor number and variable flavor number schemes.

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