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Semi-inclusive deep-inelastic scattering at NNLO in QCD

Monday, 27 May 2024 12:00 (30 minutes)

Semi-inclusive hadron production processes in deep-inelastic lepton-nucleon scattering (SIDIS) are important probes of the fragmentation dynamics of quarks into hadrons. Moreover, longitudinally polarized SIDIS is a powerful tool for resolving the quark flavor decomposition of the proton's spin structure. In this talk, I will present the recent calculation of the full next-to-next-to-leading order (NNLO) QCD corrections to the unpolarized and longitudinally polarized SIDIS coefficient functions.

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