

Heavy-hadron production based on k_t -factorization with scale-dependent fragmentation functions

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We present a comprehensive study of heavy-hadron production, including D and B mesons, heavy baryons, and the B_c meson. Our calculations are based on the k_t -factorization and scale-dependent fragmentation functions, completing the program of implementing this formalism within a variable-flavor-number scheme, as initiated in Phys. Rev.D 104 (2021) 9 094038. Special emphasis is placed on the gluon-to-heavy-hadron contribution, which improves the description of data at small transverse momenta.

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