

Factorization Connecting the Shape Function of Heavy Meson in QCD and HQET

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In this talk, I will give a factorization formula which connects the shape function defined in QCD and HQET. This factorization merges the virtues of both shape functions. Given that much phenomenological knowledge on the shape function defined in HQET has been garnered from inclusive B decay processes, we can utilize this factorization to ascertain the starting point of heavy quark mass evolution in full QCD. Additionally, this factorization formula lays a theoretical foundation for us to simulate the shape functions of heavy mesons on the lattice.

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