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Short-distance current correlators on the lattice

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Although the main use of lattice QCD computation is to provide non-perturbative calculation of low-energy physical quantities, it can also be used to calculate short-distance quantities. By matching thus calculated short-distance current correlators to corresponding perturbative calculations one can obtain the parameters appearing in the perturbation theory, such as the strong coupling constant and quark masses. We discuss about the several uses of the short-distance current correlators.

Summary

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