

NLO QCD Corrections to (pseudo)Scalar and Chiral to quark pair Vertices using IReg

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The improvement of experimental results as led to the need of equally precise, and practical, theoretical approaches to the Standard Model. The Implicit Regularisation (IReg) framework sets itself apart of more conventional dimensional schemes as it works purely in the physical 4 dimensions, which eases some problems of the aforementioned, like the need for evanescent fields. In this work we test the implementation of IReg onto the decay rate of the Z^0 boson as well as a scalar and pseudo-scalar bosons into a quark anti-quark pair at NLO in QCD.

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