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Static potential in perturbative QCD: the results and applications

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The current knowledge on the three-loop approximation of the static potential in QCD is reviewed . The results are used for the determination of the 4-th order approximation of the QCD β -function and for the e^+e^- -annihilation R-ratio in the V-scheme. The results are compared with the ones obtained in the \overline{MS} -scheme and minimal MOM scheme in the Landau gauge. The common features of the QED expression for the β -function in the V-scheme and MOM scheme are summarized.

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