

An introduction to the basics of SCET and method of regions

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Soft collinear effective theory is an effective theory of QCD in the infrared regions. It has been used widely in the study of infrared divergences of scattering amplitudes and of resummation of large logarithms in cross sections. It helps one to obtain much information about the higher order corrections. The method of regions is another useful tool to calculate loop integrals up to certain power corrections, and can thus help to check the analytic result or to set the boundary constants for differential equations.

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