

DIS 2015

XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

Dallas, Texas
April 27 – May 1, 2015



Contribution ID: 19

Type: not specified

On the resummation of non-global logarithms at finite N_c

Thursday 30 April 2015 11:10 (25 minutes)

We calculate non-global logarithms at finite N_c for the hemisphere mass distribution in $e^+e^- \rightarrow q\bar{q}$ at single logarithmic accuracy up to fifth order in the coupling constant. Our results indicate the possibility of resummation of these logarithms to all orders into an exponential form. We compare our findings to those reported in the literature at large N_c and find agreement. We also compare our results with numerical all-orders resummation at large N_c and discuss the importance of finite N_c corrections on the said distribution.

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Session Classification: WG4 QCD and Hadronic Final States

Track Classification: WG4 QCD and Hadronic Final States