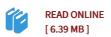# Sudakov resummation in QCD

By Bolzoni, Paolo

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Quantum Chromodynamics and the resummation of multiparton soft gluon emissions | In this work, the resummation of large logarithms in the perturbative expansion due to softand collinear multiparton emissions in quantum chromodynamics (QCD) is pedagogically introduced and developed with particular attention to the renormalization group approach. In this framework also in the case of more intricate two-scale kinematics inthe soft limit, resummation simply follows from general kinematicproperties of the phase space. This approach does not require any additional constraint on the cross section which are stronger than the standard QCD factorization. Consequently it turns out to be more general, rigorous and flexible even if less predictive.Resummationformulae to all logarithmic accuracy for the Deep-inelastic scattering, the Drell-Yan process and theprompt photon production are derived also for rapidity and transverse moemtnum distributions. This work is suitable to all researcher and gradueate students who are interested to be introduced or to know more about the foundations of soft gluon resummation in QCD. | Format: Paperback | Language/Sprache: english | 156 pp.

READ ONLINE
[6.39 MB]

Reviews

Absolutely essential go through book. It can be rally fascinating throgh studying period of time. You wont truly feel monotony at at any time of your respective time (that's what catalogues are for concerning in the event you question me).
-- Roberto Leannon

This sort of publication is everything and made me seeking forward and much more. Better then never, though i am quite late in start reading this one. I am easily could possibly get a delight of reading through a created pdf.
-- Quinton Balistreri

DMCA Notice | Terms