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Higher-Order QCD Effects in Higgs Boson Production
but not that related to missing higher-order corrections inthe theory used for PDF deter-mination Henceforth in this paper we will call ‘theoreticaluncertainty’theuncertainty due to the fixed-order truncation of the perturbative expansion, sometimes [7] also …
Higher-order QCD effects for associated VH production and ...
Higher-order QCD effects for associated VH production and decay at the LHC Giancarlo Ferrera giancarloferrera@miinfnit Universit`a di Milano & INFN Milano Moriond QCD – La Thuile – 23/3/2014 In collaboration with: MGrazzini & FTramontano Associated VH production qT-subtraction VH production and decay at the LHC Conclusions Motivations To fully exploit the information contained in
QCD RENORMALONS AND HIGHER TWIST EFFECTS
QCD RENORMALONS AND HIGHER TWIST EFFECTS to a higher order n the average gluon virtuality still remains proportional to Q, k ~ anQ where an is a certain coefficient, simply because there are no more dimensionful parameters However, the an can (and do) decrease with n, so that in very high orders n such that an ~ Q/Λ QCD the perturbative calculation fails An inspection shows that the
Higher order QCD effects in WW production with jets
Higher order QCD e ects in WW production with jets Raoul R ontsch Fermilab with Tom Melia, Kirill Melnikov, Markus Schulze, Giulia Zanderighi arXiv:hep-ph/11042327 arXiv:hep-ph/12056987 Fermilab, 17 January 2013 Raoul R ontsch Higher order QCD e ects in WW production with jets
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Higher-order QED effects in hadronic processes

Higher-order QED effects in hadronic processes Germán F R Sborlini 1 Introduction Due to the improved accuracy and precision of the experimental measurements, the corre-sponding theoretical calculations must start including effects previously neglected In the context of

Complete NNLO QCD Analysis of B¯ X and Higher Order ...

higher order QCD effects BR□□ is generally parameterized in terms of the electromagnetic coupling α, but the scale at which αshould be evaluated is, in principle, undetermined until higher order electroweak effects are taken into account This has led most authors …

QCD --- Quantum Chromodynamics

Higher order diagrams -> α S increasingly larger Summation of diagrams diverges Perturbation theory fails Asymptotic Freedom Coupling constant α S = 012 at q2 = (100 GeV)2 small at high energies Running of α S depends on q2 and # of colours and flavours Energetic quarks are (almost) free particles Summation of all diagrams converges QCD

personalpages.to.infn.it

Precision Physics 0 1 2 3 4 5 6 30 300100 mH [GeV] 2 Δχ Excluded Preliminary Δαhad = (5) 002758±000035 002749±000012 incl low Q2 data Theory uncertainty

Dealing with QCD-QED effects at higher-orders

Motivation and introduction 3 More precise experimental data is available!! We need to include (previously neglected) small theoretical effects!! NLO QCD is the standard; NNLO QCD calculations starting to appear! QED effects might compete with NNLO QCD (since □□□~□) Inclusion of QED beyond LO could lead to novel effects: Quark-gluon interacting with leptons and photons

Complete NNLO QCD analysis of + and higher s order ...

Journal of High Energy Physics Complete NNLO QCD analysis of X s + and higher order electroweak effects To cite this article: Christoph Bobeth et al JHEP04(2004)071

Higher-order QCD predictions for dark matter production at ...

Our study shows that higher-order QCD corrections to dark matter production via s-channel mediators have a significant impact not only on total production rates, but also on shapes of distributions We also show that the inclusion of next-to-leading order effects results in a sizeable reduction of the theoretical uncertainties 1 Introduction

Simulation of High Energy QCD - Durham University

All-order approximations, Merging with full fixed order Theory vs Data Hard, higher order effects beyond NLO (no surprise they exists - but they can be important even at Tevatron energies) Jeppe R Andersen (IPPP) QCD at High Energy MCnet School, August 2014 2 / 10

EW and mixed QCD-EW effects in the W boson mass determination

5 Higher order EW corrections All possible consistent choices of input parameter scheme are equivalent at a given order in perturbation theory and the numerical differences between the predictions in these schemes are higher-order effects In Ref [1] we considered the a 0 scheme (with a 0 = 1=137:035999074) and two variants of the Gm scheme

Quantum chromodynamics effects in electroweak and Higgs ...

Several examples of the often intricate effects of higher-order quantum chromody-namics (QCD) corrections on predictions for hadron-collider observables, are discussed, using the production of electroweak gauge boson and the Standard Model Higgs boson as examples Partic-ular attention is given to the interplay of QCD effects and experimental

Next-to-leading order QCD predictions for top-quark pair ...

decent convergence of perturbative QCD for the widest pos-sible range of observables is not trivial Moreover, in the presence of a wide spectrum of scales, the usage of stan-dard factor-two variations for the estimation of theoretical uncertainties due to missing higher-order effects becomes questionable Motivated by these observations, to

The Effect of llQ2 and CL, Corrections on Tests of QCD*

in deep-inelastic data if it were not for the fact that the QCD predictions are subject to several types of corrections These include target-mass corrections [6-81, higher-twist effects and corrections [9, lo] of higher order in 01~ We begin by discussing the target mass effects

Higher Order QCD - SLAC National Accelerator Laboratory

L Dixon, 7/20/06 Higher Order QCD: Lect 1 4 Monte Carlos • Based on properties of soft and collinear radiation in QCD • Partons surrounded by “cloud” of soft and collinear partons • Leading double logs of Q hard/Q soft exponentiate, can be generated probabilistically • Shower starts with basic 2 …

QCD for (future) hadron colliders

QCD for (future) hadron colliders ICTP Summer School June 15- 26 2015 Lecture 3 p Z t tbar b b H t p p t p W rapidity asymmetry in p-pbar 3 (Assuming dominance of valence contributions) W+ u dbar W– d ubar p p pbar pbar Run 1I comparison of W charge asymmetry with current PDF parameterizations Lepton charge asymmetry in W production 5 While the W+ prefers to go in the u-quark direction