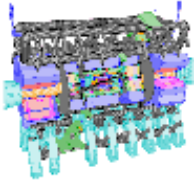


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# Outline for writeup of QCD group



# Outline



1. Introduction/motivation
2. PDF's:tools and issues
  1. fastNLO
  2. LHAPDF
    1. pdf reweighting
    2. Sudakov FF's
  3. CTEQ  $\alpha_s$  series and CTEQ7
  4. use of NLO pdf's (MC's)
3. Monte Carlo parameters
  1. underlying event tuning at the Tevatron
    1. Pythia and Jimmy
    2. CTEQ6.1
  2. extrapolation to the LHC: predictions and uncertainties
4. Matrix element/parton shower tools
  1. W+jets: CKKW/MCFM comparisons to data
  2. extrapolation to the LHC: backgrounds to VBF
  3. Samper case study: Higgs + 2 jets
5. Jet production
  1. MC@NLO: inclusive jet production
  2. jet algorithms:advice for the LHC
6. Diffraction
7. White paper on remaining measurements at the Tevatron
8. SM Benchmarks for the LHC
  1. relation to Tevatron measurements
9. Conclusions