MC group meeting - 25. May 09

Announcements

Institute on parton shower and resummation

- Last week of Institute:
- F. Hautmann
- S. Marzini

LHAPDF questionaire

M. Whalley
19. May 2009

1. How are you using LHAPDF?
* Showered & hadronised MC event generation (private)
* Showered & hadronised MC event generation (large-scale production)
* Fixed order MC calculation
* Other (please specify)

2. What code interface do you use to access LHAPDF?
* LHAPDF Fortran
* LHAGLUE Fortran (like PDFLIB, used in e.g. Pythia 6)
* C++ wrapper
* Python wrapper
* lhapdf-query script

We should/must reply....

3a. If using Fortran, do you access LHAPDF common blocks directly?

3b. If you answered yes to 3a, which ones?
* PDFLIB w50511, w50512, w50513
* LHAPDF LHAPARM
* Other (please specify)

4. If you can provide us with any code snippets of your typical LHAPDF use, particularly if you answered yes to question 3, please attach them to your reply.

Studentships and projects

- possibility of 1-3 months studentships
  - using HERA data for tunes (connection to HERA recommneded by J.Mnich)
  - tuning of generators
  - participate in generator development
- longer term projects

➔ list of topics for MC projects

- when MC position is filled, define a clear program, according to program presented in MB meeting:
  - what can be done in the experimental area: ATLAS, CMS, HERA
  - what is our program in phenomenology and define projects
- provide a schedule until end of the year...

Important Dates

- Terascale annual meeting: 11 – 13 Nov
- Terascale & Anacenter & MC group evaluation: November 2009

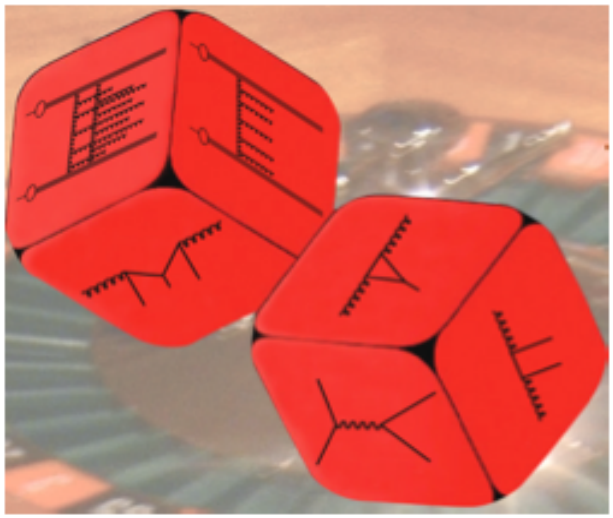
Lecture on QCD & MC

9-10 July

16-17 July

- morning lectures
- afternoon exercises

QCD AND MONTE CARLOS



- Lectures
- Exercises
  - How to get started
  - Root in 5 seconds

QCD and Monte Carlos
Lecture Course
Hannes Jung (DESY, UC Antwerp)
DESY - Hamburg
9-10 July 2009
16-17 July 2009

The lecture course is intended for master students, PhD students and postdocs. It covers a basic introduction to QCD and the QCD evolution equations (DGLAP, BFKL and CCFM). A basic introduction to Monte Carlo methods will be given, and these methods will be applied to calculate cross sections and the evolution of parton densities.

During the course we will learn, how to write a small program to integrate a partonic cross section. We will apply Monte Carlo methods to solving the DGLAP evolution equation and to calculate the transverse momentum spectrum of Higgs production in proton-proton collisions at the LHC.

The course is held at DESY, in 2 blocks of 2 day lectures with exercise sessions in the afternoon.

The lectures will be from 9:15 - 12:00 on
9.-10. July Sem 2
16.-17. July Sem 2
with exercises in the afternoon from 14:00-17:00

https://www.desy.de/~jung/qcd_and_mc_2009/

AOB

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