

MC group meeting

- Announcements
 - MC school
 - NAF ?
- interface for HEPMC to all GENSER generators
- installation of GENSER at DESY
- general fit program: to be used also for tuning and PDF fits
- web infos/web page
- AOB

Announcements

- GENSER - HEPMC meeting (once/twice /year): 5 March 16:30
- GENSER developer meeting:
 - 6. Feb 2008, 16:30 Agenda
 - ... how to install things at DESY: meeting with IT ?
- MC group goes to public:
 - with MC school
 - use virtual meeting... where others can participate ?
- should we allow for Internal Analysis Center reports ?
 - referee ? has to be read by at least one senior scientist..
 - web publishing
- twiki system ?
- ticketing system ?

Announcements

- **MC position in MC group at DESY:** concept approved by Project Board and Managament Board... still needs to be approved by DESY dir.
 - tuning of MC.
 - PDF4MC for MC generators
 - Underlying events including diffraction and saturation
 - Calculation of ME (also automatized) and matching to kT factorized PS MCs
 - Further development of kt-dependent MCs
 - User Support
- ➔ **NOW decision is delayed** due to vacant leading scientist position in DESY theory....
- ➔ has severe consequences.....

MC school

- **Organising Committee:**

H. Jung, J. Katzy, A. Knutsson, K. Kutak, S. Levonian and help from M. Grimm

→ org meeting: Friday 1Feb 10:00

web page <http://www.terascale.de/mcs2008>

- most of speakers agreed.... missing is NLO and NLO & PS
- need to get HEPMC interface to GENSER and HEPMC to ROOT ready until then
- also RIVET will be ready and used...

Registration until 31.March ?

dinner to be paid: 25 Euro (common treatment in all terascale schools)

MC school (draft program I)

Monte Carlo and Simulation school (DESY)

Monday

morning: arrival

14:00 – 15:00 Monte Carlo techniques and physics 1 (L. Lonnblad)

15:00 – 15:30 Coffee

15:30 – 16:30 NLO Calculations (NN)

16:30 – 17:30 Monte Carlo techniques and physics 2 (L.Lonnblad)

Tuesday

09:00 – 10:00 Monte Carlo techniques and physics 3 (L.Lonnblad)

10:00 – 10:30 CASCADE H.Jung) Each generator to give a 15 minute

10:30 – 11:00 PYTHIA T. Sjostrand) (maximum!) overview followed by a

11:00 – 11:30 Coffee

11:30 – 12:00 HERWIG S.Giseke) 15 minute (maximum!) 'simplified

12:00 – 12:30 SHERPA F. Krauss) user guide/introduction to tutorial

14:00 – 15:30 Exercises and practical work (hannes, judith, herwig, pythia, sherpa)

use HEPMC for W/Z pt spectrum

compare PYTHIA / HERWIG / CASCADE / SHERPA

possibly parallel for the generators

15:30 – 16:00 coffee

16:00 – 18:00 Exercisers and practical work

effect of parton shower

possibly parallel for the generators

MC school (draft program II)

Wednesday:

- 09:00 – 09:45 MC and NLO (NN)
- 09:45 – 10:30 Minimum bias/underlying event physics with PYTHIA (T. Sjostrand)
- 10:30 – 11:00 Coffee
- 11:00 – 11:45 Parton showering with HERWIG (S. Gieseke)
- 11:45 – 12:30 Multijet matching (L. Lonnblad)

- 14:00 – 15:30 Exercises and practical work (L Sonnenschein, hannes, judith,+MCs)
calculation of W/Z, Higgs, top and jet production
compare PYTHIA / HERWIG / CASCADE/ SHERPA / [MC@NLO](#)
- 15:30 – 16:00 coffee
- 16:00 – 18:00 where are NLO corrections important
where is PS better than NLO, how do different PS compare
effects of UE and MI

Thursday:

- 09:00 – 10:30 Parameter fitting and PDF4MC (A. Knutsson, K.Kutak, Lund (tbc))
- 10:30 – 11:00 Coffee
- 11:00 – 12:30 Presentation of comparison of MC generators (Hannes, Judith + all)
End of school

NAF

- Mail from Th Kress (forwarded to MC-group)

as you might know currently a DESY team is setting up the HGF alliance National Analysis Facility (NAF). Although the main focus of the NAF (possibly later expanded from DESY to University sites) later will be interactive utilization of the computing resources, complementary to the GRID, already at the setup phase the resources can be used with GRID tools.

- Can we use these facility already for the fitting ?????
- Any other news from NAF ?

disk space

- Installation of libraries etc need afs space
 - IT proposal: /afs/desy.de/project/
 - or should we follow CERN directory structure ?
/afs/cern.ch/sw/lgc/.....
we could have
/afs/desy.de/sw/mcg/... ????
 - discuss in connection with GENSER installation ...