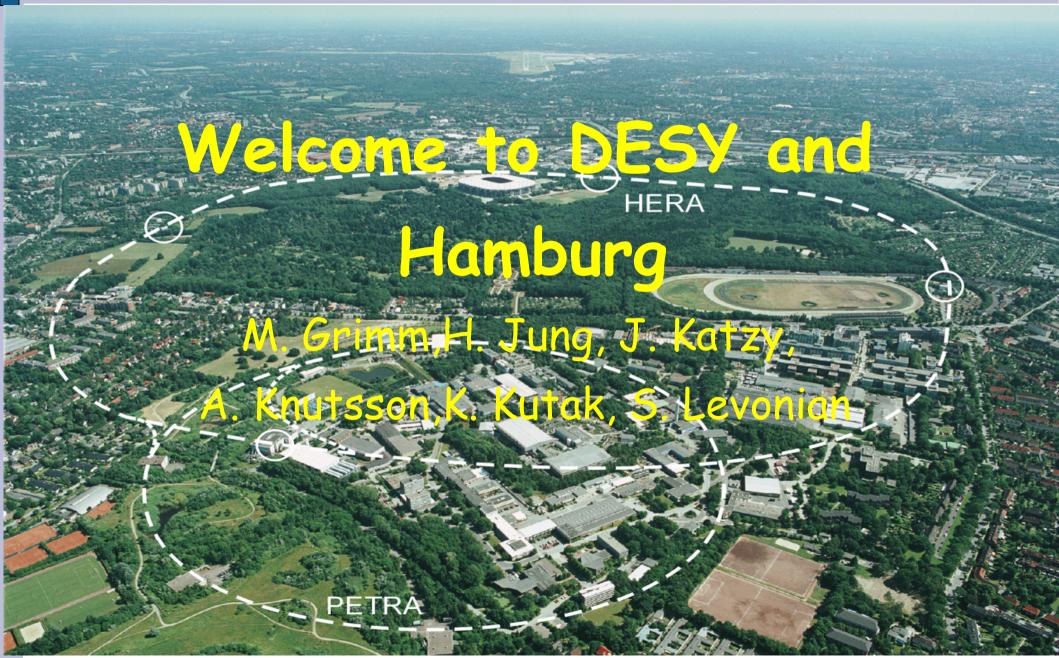
# Welcome to the Monte Carlo School



# Welcome to the Monte Carlo School



## Schedule

Μ	onday 21 April 2008		<u>top</u> ♠	
	14:00 Monte Carlo techniques and physics I (1h00')		Leif Loennblad	
	15:00	break		
	15:30 NLO Calculations (1h00')		Zakaria Merebashvili	
	16:30 Monte Carlo techniques and physics II (1h00')		Leif Loennblad	
	18:30 V	Velcome Reception		
T	uesday 22 April 2008		<u>top</u> ◆	
	09:00 Monte Carlo techniques and physics III (1h00')		Leif Loennblad	
	10:00	break		
	10:30 CASCADE (30')		Hannes Jung	
	11:00 PYTHIA (30')		Torbjoern Sjoestrand	
	11:30 HERWIG (30')		Stefan Gieseke	
	12:00 SHERPA (30')		Steffen Schumann	
	12:30	lunch		

14:00->18:00 Exercises

transparencies will be made available on the web page

## Schedule

09:00 MC and parton showers (45')  Michael Dinso				
09:45 Minimum bias/underlying event physics with PYTHIA (45)  Torbjoern Sjoestra	nd			
10:30 break				
11:00 Spin Correlations with HERWIG (45')  Stefan Gies	ke			
11:45 Multijet matching (45') Steffen Schuma	nn			
12:30 lunch				
14:00-> <i>18:00</i>				
Thursday 24 April 2008	<u>op</u> <b>↑</b>			
09:00 Parameter fitting and PDF4MC (1h00') Henrik Hoeth, Albert Knutsson, Krzysztof Ku	ak			
10:00 break				
10:30 Presentation of comparison of MC generators (1h30')	all			
12:00 end of school				

transparencies will be made available on the web page

# Video recording and EVO

 The lectures will be video recorded

> Diese Veranstaltung wird in Bild und Ton

aufgenommen, gespeichert und veröffentlicht

This performance will be audio-visually

recorded, stored and published

 Lectures will be made available in mp4 format after the school

 Lectures are also accessible form outside via EVO:

Title: Monte Carlo Group

Description: Monte Carlo Group

Community: Terascale

Password: tsmcg

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# Computing infos

- special WLAN:
  - select SSID: MC-School
  - no encryption
- all registered participants will have a school user account: please sign the paper with your user-id and passwd, and return it to the registration desk
- logon to Monte Carlo school cluster:
  - either via logon panel of desktop
  - or via ssh
     ssh -X schoolXX@bastion.desy.de
     ssh -X schoolXX@mcschool.desy.de
- Please look in your registration folder for further infos

## Exercises

#### Goals

- learn how a Monte Carlo event generator works
- learn, how to use it, in a standalone mode
- learn how to obtain information from the Monte Carlo event generator
- understand the physics of the individual Monte Carlo generators
- using HepMC event record:
  - event record common for all MC generators
  - easy to change from one to another generator
- Thursday morning:
  - 2-4 persons per generator should present (ca 20 min) the results and achievements of the exercises including critics and suggestions ...

# Exercises on Tuesday and Wednesday

- 4 sessions in parallel, one for each generator
  - → please sign in the list at the registration desk for the first day
  - > try to keep sessions equally occupied
  - → since analysis on HepMC event record, it is easy to investigate another generator...

#### Room assignments:

- → 2 seminar rooms with Desktops (15 each), Sem 1 and Sem 5
- → 2 seminar rooms only with laptop access, Sem 4a and Sem 4b
- → each generator will have a session in a room with Desktop and without.
- check room assignments on the doors and on the schedule

## Social events

• Monday evening:

Welcome reception 18:30 in canteen extension

Wednesday evening:

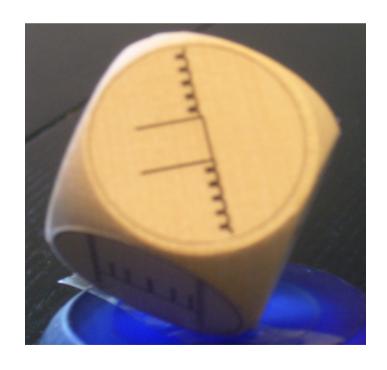
Business dinner, 19:00 in canteen extension

.... possibilities to finalise YOUR exercise presentation for Thursday ...

# Monte Carlo school toys ...

• The necessary tool for a true Monte Carlo event generator: Dices with LHC processes are available at the registration desk: 2 Euro







## Visit to Accelerator and NAF

- Thursday afternoon
  - visit to HERA tunnel and accelerator control rooms
  - visit to computing center and NAF

Please sign in the lists at the registration desk

# Thank you for coming

- Thank you all for coming
- Thanks to all the lecturers
- Thanks to the MCnet ...



 Thanks to all the local staff here at DESY, helping, preparing and organising in the background ....

## Have fun in Monte Carlo



- → it's a hard life ..
- → getting true random numbers
- → Puhhh... Going out every night ...





# Have fun and ...

# enjoy the Monte Carlo school

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