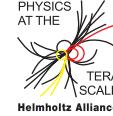


Welcome to the Terascale MC School 2015!

Helmholtz Alliance

PHYSICS AT THE TERASCALE

Deutsches Elektronen-Synchrotron DESY +++ Karlsruhe Institut für Technologie - Gitterkettensubbereich +++ Max-Planck-Institut für Physik +++ Rheinisch-Westfälische Technische Hochschule Aachen
+++ Institut für Theorie der Kondensationsphänomene zu den Grenzen der Physik und Chemie +++ Technische Universität Dortmund +++ Universität Regensburg +++ Institut für Physik der Universität Regensburg
+++ Freiburg +++ Justus-Liebig-Universität Gießen +++ Georg-August-Universität Göttingen +++ Universität Hamburg +++ Ruprecht-Karls-Universität Heidelberg
+++ Karlsruher Institut für Technologie - Universitätsbereich +++ Johannes Gutenberg-Universität Mainz +++ Ludwig-Maximilians-Universität München +++ Universität Regensburg +++ Universität Rostock +++ Universität Siegen
+++ Julius-Maximilians-Universität Würzburg +++ Bergische Universität Wuppertal +++



Monte Carlo School 2015
13 -17 April 2015
DESY, Hamburg

Lectures:

- Introduction (QCD, collinear splitting, general parton shower, Monte Carlo techniques, hadronisation, underlying events,...)
- Resummation
- Theory uncertainties
- NLO and higher-order calculations
- Parton shower matching at NLO
- Transverse momentum dependence and pt distribution of high mass systems

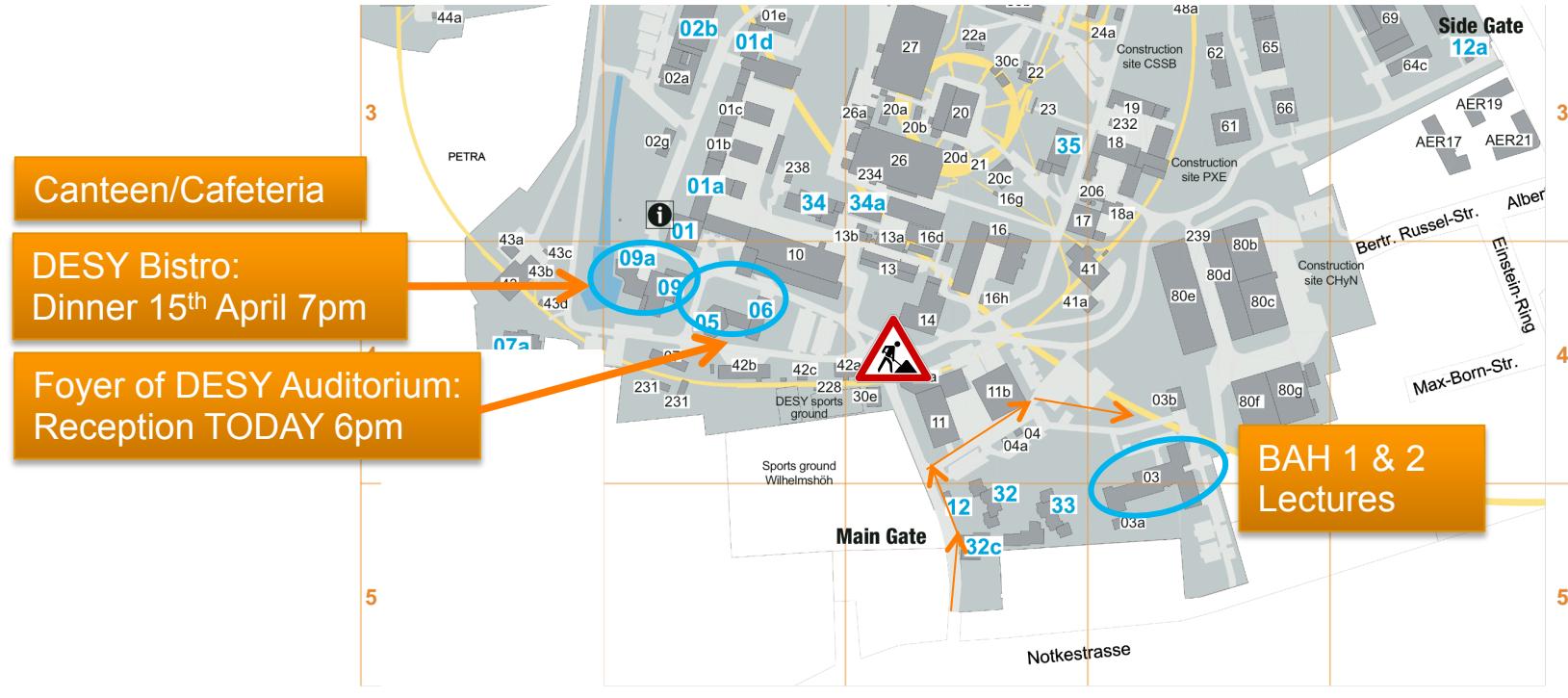
During the hands-on tutorial you will learn how Monte Carlo methods can be applied and write a small program to evolve a parton density (forward evolution) using Sudakov form factors to finally obtain the p_T -spectrum of Higgs boson.

Registration fee: 50 Euro
Registration deadline: 10 April 2015
www.terascale.de/mc2015



Where to go

The DESY Site and venues for the MC school April 13-17 2015



Program

	Monday	Tuesday	Wednesday	Thursday	Friday
9h		Monte Carlo Techniques	Resummation	NLO and higher order calculations	Transverse momentum dependence
		Coffee break	Coffee break	Coffee break	Coffee break
11h		Monte Carlo Techniques	Theory uncertainties	Parton shower matching at NLO	MC uncertainties in experimental analysis
12: 30h		Lunch break	Lunch break	Lunch break	Tutorial wrap up
14h	Introduction	Tutorial	Tutorial	Tutorial	
	Coffee break	Coffee break	Coffee break	Coffee break	
16h	Introduction	Tutorial	Tutorial	Tutorial	
	Computing set-up				
18h	Reception Foyer DESY Auditorium				
19h			Dinner DESY Bistro		

Internet & Computing

We set up a special WLAN for the school, please use this one:

- Name: terascale
- WPA/WPA2-PSK: chhHzN44

School-accounts on the NAF:

- You will all be provided with a login name to work on the German NAF on special prepared login nodes – more this afternoon in the computing setup session.



Enjoy!!!



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