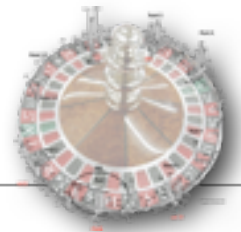


Welcome & Introduction

A. Giammanco (UCLouvain), T. Kuhl (DESY), A. Salzburger (CERN)

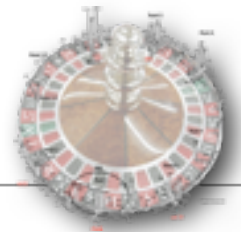
The next three days



Tuesday 15 January 2013

- | | |
|---------------|---|
| 11:00 - 12:30 | Welcome |
| 11:30 | Welcome and Overview 15' |
| 12:30 - 14:00 | Lunch (Canteen) |
| 14:00 - 16:00 | Overview about fast simulation |
| 14:00 | Conceptional overview of fast simulation 45+15 1h00'
Speaker: Thorsten Kuhl (DESY) |
| 15:00 | Comparison Fast and Full simulation 45+15 1h00'
Speakers: Daniel Froidevaux (CERN) , salz |
| 16:00 - 16:30 | Coffee |
| 16:30 - 18:30 | Delphes introduction and tutorial |
| 16:30 | Delphes overview 20+10 30'
Speaker: Michele Selvaggi (Michele.Selvaggi@cern.ch) |
| 17:00 | Delphes tutorial 1h30'
Speaker: Pavel Demin |

The next three days



Wednesday 16 January 2013

09:00 - 12:30

Frameworks

09:00 **Framework Atlas** 1h00'

Speaker: Elmar Ritsch

10:00 **Coffee** 30'

10:30 **Fast-Simulation and Digitalisation** 1h00'

Speaker: Federica Primavera

11:30 **ILC Geometry description** 1h00'

Speaker: Frank Gaede (DESY)

12:30 - 14:00

Lunch (Canteen)

14:00 - 16:00

Calorimeter Concepts I

14:00 **Calorimeter frozen showers** 40'

Speaker: Mikhail Karnevskiy (DESY)

14:40 **Calorimeter parametric** 40'

Speaker: Michael Duehrssen (~~Albert-Ludwigs-Universität Freiburg~~)

15:20 **Calorimeter CMS** 40'

Speaker: Kevin Pedro

CERN

16:00 - 16:30

Coffee

16:30 - 18:30

~~Calorimeters II~~ Particle Simulation

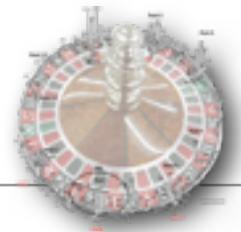
16:30 **LHC Tracking** 1h00'

Speaker: Andrea Giammanco (UCL Louvain)

17:30 **Particle Flow ILC** 1h00'

Speaker: Mikael Berggren (DESY)

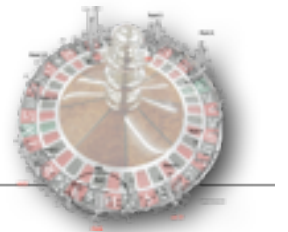
The next three days



Thursday 17 January 2013

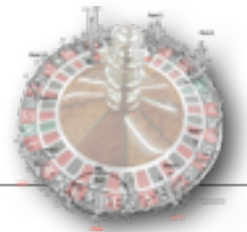
- 09:00 - 12:30 **Tracking and Future**
- 09:00 **Upgrade Simulation Atlas** 1h00'
- 10:00 **Coffee** 30'
- 10:30 **Upgrade simulation CMS** 1h00'
Speaker: silvia Tentindo
- 11:30 **Fast simulation at the T-Event Scale** 1h00'
Speaker: Andreas Salzburger (CERN)
- 12:30 - 14:00 **Lunch** (Canteen)
- 14:00 - 16:00 **Closing discussion**

Why ?



- Simulation is one of the most important aspects of high energy physics
 - long standing tradition of a common full simulation toolkit (Geant3/4/X)
 - common concepts on fast simulation developed in several areas
- There are stand-alone programs on the market
 - not really used by the experiments, but rather by individuals
- The LHC is working too well :-)
 - demand for MC statistics is highly increasing
 - even modern computing techniques easily achieve the necessary speed-up
 - first physics analyses become MC statistic limited

How ?



- This should have a workshop type character
 - participate ! ask ! criticise !
- There are stand-alone programs on the market
 - not really used by the experiments, but rather by individuals
- This is to exchange ideas
 - discuss, learn