MC4LHC - 2006

Report of Contributions

https://indico.cern.ch/e/3757

Contribution ID: **0** Type: **not specified**

Welcome and introduction

Monday, 17 July 2006 09:00 (15 minutes)

Session Classification: MC tools, use in the experiments

Contribution ID: **1** Type: **not specified**

ATLAS: MC experience and needs

Monday, 17 July 2006 09:15 (40 minutes)

Presenter: KERSEVAN, borut (University of Ljubljana)

Session Classification: MC tools, use in the experiments

Contribution ID: **2** Type: **not specified**

CMS: MC experience and needs

Monday, 17 July 2006 09:55 (40 minutes)

Presenter: DE ROECK, Albert (CERN)

Session Classification: MC tools, use in the experiments

Contribution ID: **3** Type: **not specified**

LHCb: MC experience and needs

Monday, 17 July 2006 11:00 (30 minutes)

Presenter: ROBBE, Patrick (LAL, Orsay)

Session Classification: MC tools, use in the experiments

Contribution ID: **4** Type: **not specified**

ALICE: MC experience and needs

Monday, 17 July 2006 11:30 (30 minutes)

Presenter: MONTENO, Marco (CERN)

Session Classification: MC tools, use in the experiments

Contribution ID: **5** Type: **not specified**

HERWIG++

Monday, 17 July 2006 15:30 (30 minutes)

Presenter: GIESEKE, Stefan (Karlsruhe University)

Session Classification: MC tools, status reports

Contribution ID: **6** Type: **not specified**

PYTHIA8

Monday, 17 July 2006 16:00 (30 minutes)

Presenter: SJOSTRAND, Torbjorn (LUND/CERN)

Session Classification: MC tools, status reports

Contribution ID: **7** Type: **not specified**

SHERPA

Monday, 17 July 2006 16:30 (20 minutes)

Presenter: KRAUSS, Frank (Dresden University)

Session Classification: MC tools, status reports

Contribution ID: **8** Type: **not specified**

MADGRAPH

Monday, 17 July 2006 17:05 (15 minutes)

Presenter: ALWALL, Johan (Universite' Louvain)

Session Classification: MC tools, status reports

Contribution ID: **9** Type: **not specified**

ALPGEN

Monday, 17 July 2006 17:20 (15 minutes)

Presenter: MANGANO, Michelangelo (CERN)

Session Classification: MC tools, status reports

Contribution ID: **10** Type: **not specified**

TopReX

Monday, 17 July 2006 17:50 (15 minutes)

Presenter: SLABOSPITSKY, Sergey (IHEP, Protvino)

Session Classification: MC tools, status reports

Contribution ID: **11** Type: **not specified**

HepPDT and HepMC

Monday, 17 July 2006 12:00 (30 minutes)

Presenter: GARREN, Lynn (FERMILAB)

Session Classification: MC tools, use in the experiments

Contribution ID: **12** Type: **not specified**

CEDAR and associated tools

Monday, 17 July 2006 13:30 (30 minutes)

Presenter: BUTTERWORTH, Jon (University College London)

Session Classification: Proposed work projects

Contribution ID: **13** Type: **not specified**

Supporting Monte Carlo generators at the LHC

Monday, 17 July 2006 14:00 (20 minutes)

Working group meet on Tuesday 18th AM.
The general support of Monte Carlo services for the LHC is currently delegated to LCG. The workshop offers an opportunity to re-evaluate some of the issues dealing with the development and maintenance of the Monte Carlo software relevant for both the experimental and the theoretical communities.

Presenter: BARTALINI, Paolo (University of Florida)

Session Classification: Proposed work projects

Contribution ID: **14** Type: **not specified**

Jet algorithms

Monday, 17 July 2006 14:30 (30 minutes)

Presenter: HUSTON, Joey (Michigan State University)

Session Classification: Proposed work projects

Contribution ID: **15** Type: **not specified**

MC@NLO

Monday, 17 July 2006 16:50 (15 minutes)

Presenter: FRIXIONE, Stefano (INFN, Genova)

Session Classification: MC tools, status reports

Contribution ID: **16** Type: **not specified**

MC@NLO

Contribution ID: **17** Type: **not specified**

HELAC/PHEGAS

Monday, 17 July 2006 17:35 (15 minutes)

Presenter: PAPADOPOULOS, Costas (Demokritos, Greece)

Session Classification: MC tools, status reports

Contribution ID: **18** Type: **not specified**

PHANTOM

Monday, 17 July 2006 18:05 (15 minutes)

Presenter: MAINA, Ezio (University and INFN, Torino)

Session Classification: MC tools, status reports

Contribution ID: **19** Type: **not specified**

CompHEP

Monday, 17 July 2006 18:20 (15 minutes)

Presenter: Dr DUDKO, Lev (Moscow State University)

Session Classification: MC tools, status reports

Contribution ID: **20** Type: **not specified**

AcerMC

Monday, 17 July 2006 18:35 (15 minutes)

Presenter: KERSEVAN, Borut (University of Ljubljana)

Session Classification: MC tools, status reports

Contribution ID: **21** Type: **not specified**

LCG MCDB

Tuesday, 18 July 2006 09:25 (30 minutes)

Status report on LCG MCDB project

Presenter: Dr DUDKO, Lev (Moscow State University)

Session Classification: LCG Monte Carlo Services (LCG Generator)

Contribution ID: **22** Type: **not specified**

LCG HepML

Tuesday, 18 July 2006 09:55 (30 minutes)

Presenter: SHERSTNEV, Alexander (University of Cambridge)

Session Classification: LCG Monte Carlo Services (LCG Generator)

Contribution ID: **23** Type: **not specified**

Minimum Bias and Underlying Event

Monday, 17 July 2006 14:20 (10 minutes)

Working group meet on Friday 21st AM.

Session Classification: Proposed work projects

Contribution ID: **24** Type: **not specified**

CEDAR HepML

Tuesday, 18 July 2006 10:25 (20 minutes)

Discussion on the proposed merged schemas, common areas, etc
etc.

Session Classification: LCG Monte Carlo Services (LCG Generator)

Contribution ID: **25** Type: **not specified**

Rivet and RivetGun

Wednesday, 19 July 2006 11:10 (20 minutes)

These projects are supposed to be C++ replacements for HZTool/HZSteer in providing generator-independent particle-level analysis routines.

Presenter: Dr BUCKLEY, Andy (Durham University)

Session Classification: CEDAR and associated tools

Contribution ID: **26** Type: **not specified**

Continuation of HepMC/CLHEP discussions (if necessary)

Wednesday, 19 July 2006 12:00 (20 minutes)

Session Classification: CEDAR and associated tools

Contribution ID: **27** Type: **not specified**

CEDAR and GENSER discussion?

Wednesday, 19 July 2006 11:30 (20 minutes)

Presenter: Dr BUCKLEY, Andy (Durham University)

Session Classification: CEDAR and associated tools

Contribution ID: **29** Type: **not specified**

Priority data sets for JetWeb

Wednesday, 19 July 2006 09:30 (15 minutes)

Session Classification: CEDAR and associated tools

Contribution ID: **30** Type: **not specified**

Priority MC models to be validated

Wednesday, 19 July 2006 10:40 (30 minutes)

If the experiments can provide a list of the top priority MC models you would like to see in JetWeb, that would be very helpful.

Session Classification: CEDAR and associated tools

Contribution ID: **31** Type: **not specified**

Higgs production via VBF: Comparison between generators

Tuesday, 18 July 2006 13:30 (10 minutes)

Presenter: MELLADO GARCIA, Bruce (University of Wisconsin)

Session Classification: EW/QCD background simulations

Contribution ID: **32** Type: **not specified**

Multi-jet final states: ALPGEN experience in CMS

Tuesday, 18 July 2006 13:40 (10 minutes)

Session Classification: EW/QCD background simulations

Contribution ID: **33** Type: **not specified**

LHA-I in Pythia

Tuesday, 18 July 2006 11:15 (20 minutes)

Session Classification: LCG Monte Carlo Services (LCG Generator)

Contribution ID: **34** Type: **not specified**

Ariadne and CKKW

Tuesday, 18 July 2006 14:50 (10 minutes)

Presenter: LÖNNBLAD, Leif (Lund University)

Session Classification: EW/QCD background simulations

Contribution ID: **35** Type: **not specified**

Priority data sets for JetWeb

Wednesday, 19 July 2006 09:50 (20 minutes)

Presenter: SJOSTRAND, Torbjorn (Department of Theoretical Physics)

Session Classification: CEDAR and associated tools

Contribution ID: **36** Type: **not specified**

Heavy Particles and Hard Jets

Tuesday, 18 July 2006 13:50 (20 minutes)

Presenter: Dr SKANDS, Peter (FNAL)

Session Classification: EW/QCD background simulations

Contribution ID: **37** Type: **not specified**

Merging Matrix Elements and Parton Showers with Sherpa

Tuesday, 18 July 2006 14:10 (20 minutes)

Presenter: SCHUMANN, Steffen (Institute of Theoretical Physics, Dresden Univ. of Technology)

Session Classification: EW/QCD background simulations

Contribution ID: **38** Type: **not specified**

Framing the issues

Thursday, 20 July 2006 14:30 (25 minutes)

Presenter: HUSTON, Joey (Michigan State University)

Session Classification: Jet clustering

Contribution ID: **39** Type: **not specified**

W + jets at the Tevatron

Thursday, 20 July 2006 14:55 (30 minutes)

Presenter: COOPER, Ben

Session Classification: Jet clustering

Contribution ID: **40** Type: **not specified**

Jets in ATLAS

Thursday, 20 July 2006 15:25 (30 minutes)

Presenter: RHODA, Chiara

Session Classification: Jet clustering

Contribution ID: **41** Type: **not specified**

Jets in CMS

Thursday, 20 July 2006 15:55 (30 minutes)

Presenter: ULYANOV, Alexei

Session Classification: Jet clustering

Contribution ID: **42** Type: **not specified**

Coffee break

Thursday, 20 July 2006 16:25 (15 minutes)

Session Classification: Jet clustering

Contribution ID: **43** Type: **not specified**

View from a theorist

Thursday, 20 July 2006 16:40 (30 minutes)

Presenter: ELLIS, Steve

Session Classification: Jet clustering

Contribution ID: **44** Type: **not specified**

Cone vs kT, FastJet, and UE/MB jet corrections in kT-clustering

Thursday, 20 July 2006 17:10 (30 minutes)

Presenter: CACCIARI, Matteo

Session Classification: Jet clustering

Contribution ID: **45** Type: **not specified**

Jets and underlying event

Thursday, 20 July 2006 17:40 (30 minutes)

Presenter: CARLI, Tancredi

Session Classification: Jet clustering

Contribution ID: **46** Type: **not specified**

Discussion -follow up on mon and beyond

Thursday, 20 July 2006 18:10 (20 minutes)

Session Classification: Jet clustering

Contribution ID: **47** Type: **not specified**

Tuning the Monte-Carlo Models and Extrapolations to the LHC

Friday, 21 July 2006 10:10 (40 minutes)

Jet Production, Drell-Yan, and Min-Bias

Presenter: Prof. FIELD, Rick (University of Florida)

Session Classification: Underlying event and minimum bias events

Contribution ID: **48** Type: **not specified**

UE/MB subtraction in kT clustering

Friday, 21 July 2006 09:30 (20 minutes)

Presenter: CACCIARI, Matteo (LPTHE Paris)

Session Classification: Underlying event and minimum bias events

Contribution ID: **49** Type: **not specified**

Simon Plaetzer

Tuesday, 25 July 2006 16:15 (10 minutes)

Session Classification: MCnet meeting

Contribution ID: **50** Type: **not specified**

Keith Hamilton

Tuesday, 25 July 2006 15:45 (10 minutes)

Session Classification: MCnet meeting

Contribution ID: **51** Type: **not specified**

Seyi Latunde-Dada

Tuesday, 25 July 2006 16:00 (10 minutes)

Session Classification: MCnet meeting

Contribution ID: **52** Type: **not specified**

General Discussion

Tuesday, 25 July 2006 15:30 (10 minutes)

What is MCnet all about? How can I benefit? What can I contribute?

Presenter: SEYMOUR, Mike (CERN)

Session Classification: MCnet meeting

Contribution ID: **53** Type: **not specified**

Tuning of proton momentum spectrum in diffractive events

Friday, 21 July 2006 09:50 (20 minutes)

Presenter: GROTHE, Monika (Department of Physics)

Session Classification: Underlying event and minimum bias events

Contribution ID: **54** Type: **not specified**

UE in CMS

Friday, 21 July 2006 11:05 (20 minutes)

Presenter: AMBROGLINI, Filippo (INFN Sez. di Perugia c/o Dipt. di Fisica (INFN))

Session Classification: Underlying event and minimum bias events

Contribution ID: **55** Type: **not specified**

MB in ATLAS (at start-up)

Friday, 21 July 2006 11:25 (20 minutes)

Presenter: BUTTAR, Craig (Department of Physics and Astronomy)

Session Classification: Underlying event and minimum bias events

Contribution ID: **56** Type: **not specified**

Discussion

Friday, 21 July 2006 12:05 (30 minutes)

Session Classification: Underlying event and minimum bias events

Contribution ID: **57** Type: **not specified**

Stringy Uncertainties in Hadron Collisions

Friday, 21 July 2006 11:45 (20 minutes)

Presenter: Dr SKANDS, Peter (FNAL)

Session Classification: Underlying event and minimum bias events

Contribution ID: **58** Type: **not specified**

Status of GENSER: presentation of the release 1_4_0 and plans

Tuesday, 25 July 2006 09:25 (30 minutes)

Presenter: Dr KIRSANOV, Mikhail (INR Moscow)

Session Classification: LCG Generator

Contribution ID: **59** Type: **not specified**

Experience with new compilers (G95 etc.)

Tuesday, 25 July 2006 09:55 (20 minutes)

Presenter: YAARI, Refael

Session Classification: LCG Generator

Contribution ID: **60** Type: **not specified**

Discussion on collaboration with CEDAR

Tuesday, 25 July 2006 10:15 (30 minutes)

Session Classification: LCG Generator

Contribution ID: **61** Type: **not specified**

Discussion on Les Houches event files

Tuesday, 25 July 2006 11:00 (30 minutes)

Presenter: SJOSTRAND, Torbjorn (Department of Theoretical Physics)

Session Classification: LCG Generator

Contribution ID: **62** Type: **not specified**

Proposal of the new version of HepMC and discussion

Tuesday, 25 July 2006 11:30 (30 minutes)

Presenter: GARREN, Lynn (F.N.A.L.)

Session Classification: LCG Generator

Contribution ID: **63** Type: **not specified**

Density-Based Clustering and Jet Reconstruction

Monday, 24 July 2006 15:00 (30 minutes)

Presenter: Dr VOLOBOUEV, Igor (Texas Tech University)

Session Classification: Jet clustering, II

Contribution ID: **64** Type: **not specified**

Further discussion

Monday, 24 July 2006 15:00 (20 minutes)

Session Classification: Jet clustering, II

Contribution ID: **65** Type: **not specified**

HepML progress & plans

Wednesday, 26 July 2006 09:30 (15 minutes)

Presenter: BUTTERWORTH, Jon

Session Classification: Final reports, working plans, etc

Contribution ID: **66** Type: **not specified**

JetWeb progress & plans (including rivet/gun etc)

Wednesday, 26 July 2006 09:45 (15 minutes)

Presenter: BUTTERWORTH, Jon

Session Classification: Final reports, working plans, etc

Contribution ID: **67** Type: **not specified**

New parton shower MC for QCD initial state radiation

Wednesday, 26 July 2006 11:30 (15 minutes)

Group/collaboration: CAMTOPH-Krakow

Presenter: JADACH, Stanislaw

Session Classification: Final reports, working plans, etc

Contribution ID: **68** Type: **not specified**

Templates for ME+shower W+multijet comparisons

Wednesday, 26 July 2006 11:45 (15 minutes)

ALPGEN, ARIADNE, SHERPA collab's

Presenter: MANGANO, Michelangelo (CERN)

Session Classification: Final reports, working plans, etc

Contribution ID: **69** Type: **not specified**

GENSER future plans

Wednesday, 26 July 2006 10:00 (25 minutes)

Open discussion on GENSER

Presenter: Dr KIRSANOV, Mikhail (INR Moscow)

Session Classification: Final reports, working plans, etc

Contribution ID: **70** Type: **not specified**

LesHouchesAccord event files

Wednesday, 26 July 2006 11:00 (15 minutes)

Presenter: SJOSTRAND, Torbjorn (Department of Theoretical Physics)

Session Classification: Final reports, working plans, etc

Contribution ID: **71** Type: **not specified**

MCnet plans

Wednesday, 26 July 2006 11:15 (15 minutes)

Presenter: SEYMOUR, Mike (CERN)

Session Classification: Final reports, working plans, etc

Contribution ID: **73** Type: **not specified**

Generator Author Comment

Wednesday, 26 July 2006 10:25 (5 minutes)

Presenter: Dr RICHARDSON, Peter (IPPP, Durham University)

Session Classification: Final reports, working plans, etc