

17th Geant4 Collaboration Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

Prospects for FNAL validation DB

Thursday, 13 September 2012 14:20 (30 minutes)

Presenters: Dr WENZEL, Hans-Joachim (Fermi National Accelerator Lab. (US)); YARBA, Julia (Fermi National Accelerator Lab. (US))

Session Classification: Parallel session 7A : Tools and Strategies for Physics Validation

Contribution ID: 1

Type: **not specified**

Experience in using Geant4 on the GRID

Thursday, 13 September 2012 14:00 (20 minutes)

Presenters: Dr RIBON, Alberto (CERN); Dr SANTIN, Giovanni (ESA); POKORSKI, Witold (CERN)

Session Classification: Parallel session 7A : Tools and Strategies for Physics Validation

Contribution ID: 2

Type: **not specified**

KISTI resources

Thursday, 13 September 2012 14:50 (20 minutes)

Presenters: Prof. CHO, Kihyeon (KISTI); Dr HWANG, Soonwook (KISTi Korea Institute of Science & Technology Information (KR))

Session Classification: Parallel session 7A : Tools and Strategies for Physics Validation

Contribution ID: 3

Type: **not specified**

Experience with CTest/CDash for physics validation

Thursday, 13 September 2012 15:10 (20 minutes)

Presenter: DOTTI, Andrea (Geant 4 Associates International Experts in Radiation Simulatio)

Session Classification: Parallel session 7A : Tools and Strategies for Physics Validation

Contribution ID: 4

Type: **not specified**

Discussion time

Contribution ID: 5

Type: **not specified**

Status of Hadronic Shower Simulation for LHC

Tuesday, 11 September 2012 11:00 (25 minutes)

Presenter: DOTTI, Andrea (Geant 4 Associates International Experts in Radiation Simulatio)

Session Classification: Plenary session 4 : Hadronic physics

Contribution ID: 6

Type: **not specified**

Recent Developments in Fritiof (FTF) Model

Tuesday, 11 September 2012 11:25 (25 minutes)

Presenter: UZHINSKIY, Vladimir (Joint Inst. for Nuclear Research (RU))

Session Classification: Plenary session 4 : Hadronic physics

Contribution ID: 7

Type: **not specified**

Using Bertini Cascade for Lepto-nuclear and Stopping Processes

Tuesday, 11 September 2012 11:50 (25 minutes)

Presenter: KELSEY, Michael (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 4 : Hadronic physics

Contribution ID: 8

Type: **not specified**

Discussion

Tuesday, 11 September 2012 12:15 (15 minutes)

Presenters: Dr RIBON, Alberto (CERN); WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 4 : Hadronic physics

Contribution ID: 9

Type: **not specified**

Updates to OpenInventor Visualization

Tuesday, 11 September 2012 16:00 (20 minutes)

Presenter: JONES, Fred

Session Classification: Parallel session 4B : Visualization

Contribution ID: **10**

Type: **not specified**

Updates to Qt Visualization

Tuesday, 11 September 2012 16:20 (20 minutes)

Presenter: Mr GARNIER, Laurent (LAL-IN2P3-CNRS)

Session Classification: Parallel session 4B : Visualization

Contribution ID: 11

Type: **not specified**

Challenges of Vis Testing on so many Diverse Platforms

Tuesday, 11 September 2012 16:40 (20 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Parallel session 4B : Visualization

Contribution ID: 12

Type: **not specified**

Visualization for Geant4.10

Tuesday, 11 September 2012 17:00 (30 minutes)

Presenter: ALLISON, John (University of Manchester (GB))

Session Classification: Parallel session 4B : Visualization

Contribution ID: 13

Type: **not specified**

General Discussion

Tuesday, 11 September 2012 17:30 (30 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Parallel session 4B : Visualization

Contribution ID: 14

Type: **not specified**

Introduction of Main Issues

Wednesday, 12 September 2012 16:00 (20 minutes)

Presenter: WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 6A : Rethinking the Hadronic Framework

Contribution ID: 15

Type: **not specified**

Collection of Other Issues

Wednesday, 12 September 2012 16:20 (20 minutes)

Session Classification: Parallel session 6A : Rethinking the Hadronic Framework

Contribution ID: 17

Type: **not specified**

Discussion and work

Wednesday, 12 September 2012 16:40 (1h 20m)

Session Classification: Parallel session 6A : Rethinking the Hadronic Framework

Contribution ID: **18**

Type: **not specified**

Geant4 MT - status, requirements and evolution

Contribution ID: **19**

Type: **not specified**

Goals of session

Monday, 10 September 2012 16:00 (5 minutes)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 20

Type: **not specified**

C++ 11 Threads and Geant4-MT

Monday, 10 September 2012 16:05 (15 minutes)

Perspectives on the potential benefits and issues with porting Geant4-MT to C++ 11 threads.

Primary authors: GREEN, Christopher (Department of Physics); Dr PATERNO, Marc (Fermilab)

Presenter: Dr PATERNO, Marc (Fermilab)

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 21

Type: **not specified**

Geant4-MT: Addressing requirement for dispatch-type parallelism

Monday, 10 September 2012 16:20 (15 minutes)

How to address the requirement for co-working with TBB (dispatch model of parallelism) ?

- Analysis of requirement
- Discussion of impact
- Conclusions and actions

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 22

Type: **not specified**

Parallel Geant4 beyond Multi-threading - Introduction

Monday, 10 September 2012 16:35 (5 minutes)

Introduction / context

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 23

Type: **not specified**

G4 on GPU: Improving Navigation in Voxel geometries

Monday, 10 September 2012 16:40 (10 minutes)

Primary author: TIRUMALA BUKKAPATNAM, Dhruva

Co-authors: Dr APOSTOLAKIS, John (CERN); SEISKARI, Otto (Helsinki Institute of Physics (HIP))

Presenter: TIRUMALA BUKKAPATNAM, Dhruva

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 24

Type: **not specified**

G4 on GPU: Propagation in Field and EM Bremstrahlung process

Monday, 10 September 2012 16:50 (30 minutes)

Results from prototypes with GPUs, Vectors.
Information on hardware evolution, including MIC.

Primary authors: DONG WOOK, Jang (Carnegie Mellon University); Mr CANAL, Philippe (Fermi National Accelerator Lab. (US)); Dr JUN, Soon Yung (Fermi National Accelerator Lab. (US))

Presenters: Mr CANAL, Philippe (Fermi National Accelerator Lab. (US)); Dr JUN, Soon Yung (Fermi National Accelerator Lab. (US))

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 25

Type: **not specified**

Ion/Ion validation in Geant4 for space applications

Wednesday, 12 September 2012 14:00 (20 minutes)

Presenter: IVANTCHENKO, Anton (Geant 4 Associates International Experts in Radiation Simulation)

Session Classification: Parallel session 5A : Ion-Ion interactions

Contribution ID: 26

Type: **not specified**

Recent development and nucleus-nucleus extension of INCL++

Wednesday, 12 September 2012 14:20 (20 minutes)

Presenter: MANCUSI, Davide

Session Classification: Parallel session 5A : Ion-Ion interactions

Contribution ID: 27

Type: **not specified**

Status of Charged Particle HP

Wednesday, 12 September 2012 14:40 (20 minutes)

Presenter: Mr ARCE, Pedro (CIEMAT)

Session Classification: Parallel session 5A : Ion-Ion interactions

Contribution ID: 28

Type: **not specified**

Interfaces, hadronic model organization and requirements for low energy ion-ion reactions

Wednesday, 12 September 2012 15:00 (20 minutes)

Presenter: WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 5A : Ion-Ion interactions

Contribution ID: 29

Type: **not specified**

Current Coverage of Hadronic Validation

Tuesday, 11 September 2012 14:00 (15 minutes)

Presenter: WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 3A : Hadronic Validation

Contribution ID: **30**

Type: **not specified**

Discussion on Haronic Validation Coverage

Tuesday, 11 September 2012 14:15 (20 minutes)

Presenters: WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US)); YARBA, Julia (Fermi National Accelerator Lab. (US))

Session Classification: Parallel session 3A : Hadronic Validation

Contribution ID: **31**

Type: **not specified**

Validation for LHC experiments

Tuesday, 11 September 2012 14:35 (10 minutes)

Presenter: POKORSKI, Witold (CERN)

Session Classification: Parallel session 3A : Hadronic Validation

Contribution ID: 32

Type: **not specified**

Discussion and Plans on Validation for LHC experiments

Tuesday, 11 September 2012 14:45 (20 minutes)

Presenters: YARBA, Julia (Fermi National Accelerator Lab. (US)); POKORSKI, Witold (CERN)

Session Classification: Parallel session 3A : Hadronic Validation

Contribution ID: 33

Type: **not specified**

Physics Performance and Benchmarking INCL++

Tuesday, 11 September 2012 15:05 (25 minutes)

Presenter: Dr BOUDARD, Alain (SPhN-CEA-Saclay)

Session Classification: Parallel session 3A : Hadronic Validation

Contribution ID: 34

Type: **not specified**

Regular performance monitoring - tools, process, and results

Monday, 10 September 2012 14:00 (20 minutes)

Presenter: Dr JUN, Soon Yung (Fermi National Accelerator Lab. (US))

Session Classification: Parallel session 1B: Testing and QA

Contribution ID: 35

Type: **not specified**

Profiling Geant4 with Dtrace and reordering execution for performance gain

Monday, 10 September 2012 14:20 (15 minutes)

Presenter: KAMPERIS, Efstathios

Session Classification: Parallel session 1B: Testing and QA

Contribution ID: **36**

Type: **not specified**

Performance of ATLAS G4 simulation

Monday, 10 September 2012 14:35 (10 minutes)

Primary author: RITSCH, Elmar (University of Innsbruck (AT))

Presenter: RITSCH, Elmar (University of Innsbruck (AT))

Session Classification: Parallel session 1B: Testing and QA

Contribution ID: 37

Type: **not specified**

Performance of CMS G4 simulation

Monday, 10 September 2012 14:45 (10 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: ELVIRA, Victor Daniel (Fermi National Accelerator Lab. (US))

Session Classification: Parallel session 1B: Testing and QA

Contribution ID: **38**

Type: **not specified**

Testing shifts - experience and topics for improvement; guided discussion

Monday, 10 September 2012 15:10 (20 minutes)

Session Classification: Parallel session 1B: Testing and QA

Contribution ID: 39

Type: **not specified**

Production of excited fragments with delayed decay (isomers)

Tuesday, 11 September 2012 16:00 (10 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel session 4A : Hadronic Issues

Contribution ID: 40

Type: **not specified**

Models for quasi-elastic

Tuesday, 11 September 2012 16:10 (20 minutes)

Presenter: POKORSKI, Witold (CERN)

Session Classification: Parallel session 4A : Hadronic Issues

Contribution ID: 41

Type: **not specified**

Nuclear recoils: when to generate or supress

Tuesday, 11 September 2012 16:30 (20 minutes)

Session Classification: Parallel session 4A : Hadronic Issues

Contribution ID: 42

Type: **not specified**

False/Failed hadronic interactions

Tuesday, 11 September 2012 16:50 (20 minutes)

Co-author: KELSEY, Michael (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 4A : Hadronic Issues

Contribution ID: 43

Type: **not specified**

Setting options/parameters for hadronic models

Tuesday, 11 September 2012 17:10 (20 minutes)

Co-authors: MANCUSI, Davide; KELSEY, Michael (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 4A : Hadronic Issues

Contribution ID: 44

Type: **not specified**

Status of biasing in G4

Thursday, 13 September 2012 09:00 (15 minutes)

Presenter: Dr VERDERI, Marc (Ecole Polytechnique (FR))

Session Classification: Plenary session 7 : Ongoing Developments II (Physics)

Contribution ID: 45

Type: **not specified**

New developments and tests in ReverseMC

Thursday, 13 September 2012 09:15 (15 minutes)

Presenter: DESORGHER, Laurent (SpaceIT GmbH)

Session Classification: Plenary session 7 : Ongoing Developments II (Physics)

Contribution ID: 46

Type: **not specified**

scorers

Contribution ID: 47

Type: **not specified**

Improvements in radioactive decay model and data

Thursday, 13 September 2012 09:30 (15 minutes)

Presenter: DESORGHER, Laurent (SpaceIT GmbH)

Session Classification: Plenary session 7 : Ongoing Developments II (Physics)

Contribution ID: 48

Type: **not specified**

Recent and ongoing developments in hadronics

Thursday, 13 September 2012 09:45 (15 minutes)

Presenter: Dr RIBON, Alberto (CERN)

Session Classification: Plenary session 7 : Ongoing Developments II (Physics)

Contribution ID: 49

Type: **not specified**

Welcome (workshop logistics)

Monday, 10 September 2012 09:00 (10 minutes)

Presenter: Dr VERDERI, Marc (Ecole Polytechnique (FR))

Session Classification: Plenary session 1 : Opening Addresses

Contribution ID: 50

Type: **not specified**

Meeting goals

Monday, 10 September 2012 09:10 (20 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 1 : Opening Addresses

Contribution ID: 51

Type: **not specified**

Report from user domains : HENP

Monday, 10 September 2012 09:30 (15 minutes)

Presenters: Dr RIBON, Alberto (CERN); POKORSKI, Witold (CERN)

Session Classification: Plenary session 1 : Opening Addresses

Contribution ID: 52

Type: **not specified**

Report from user domains : Space

Monday, 10 September 2012 09:45 (15 minutes)

Presenter: Dr SANTIN, Giovanni (ESA)

Session Classification: Plenary session 1 : Opening Addresses

Contribution ID: 53

Type: **not specified**

Report from user domains : Medical

Monday, 10 September 2012 10:00 (15 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Plenary session 1 : Opening Addresses

Contribution ID: 54

Type: **not specified**

Report from user domains : LBE

Monday, 10 September 2012 10:15 (15 minutes)

Presenter: WRIGHT, Dennis (SLAC)

Session Classification: Plenary session 1 : Opening Addresses

Contribution ID: 55

Type: **not specified**

Validation of Geant4 versus EGS

Tuesday, 11 September 2012 09:00 (20 minutes)

Primary author: Dr PERROT, Yann

Presenter: Dr PERROT, Yann

Session Classification: Plenary session 3 : Electromagnetic physics (Std-EM, LowE-EM)

Contribution ID: 56

Type: **not specified**

Geant4 EM physics progress by ESA

Tuesday, 11 September 2012 09:20 (20 minutes)

Presenter: SANTIN, Giovanni (Universita degli Studi di Trieste)

Session Classification: Plenary session 3 : Electromagnetic physics (Std-EM, LowE-EM)

Contribution ID: 57

Type: **not specified**

EM physics for LHC

Tuesday, 11 September 2012 09:40 (25 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary session 3 : Electromagnetic physics (Std-EM, LowE-EM)

Contribution ID: 58

Type: **not specified**

Geant4-DNA progress

Tuesday, 11 September 2012 10:05 (25 minutes)

Presenter: INCERTI, Sebastien Laurent (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary session 3 : Electromagnetic physics (Std-EM, LowE-EM)

Contribution ID: 59

Type: **not specified**

New Compton model

Monday, 10 September 2012 14:00 (20 minutes)

Presenter: BROWN, Jeremy

Session Classification: Parallel session 1A : New EM model developments

Contribution ID: **60**

Type: **not specified**

The MuElec extension for microdosimetry in Silicon

Monday, 10 September 2012 14:30 (20 minutes)

Presenter: RAINE, Melanie

Session Classification: Parallel session 1A : New EM model developments

Contribution ID: **61**

Type: **not specified**

Modeling biological structures with protein data bank

Monday, 10 September 2012 14:50 (20 minutes)

Presenter: MADSEN, Jonathan

Session Classification: Parallel session 1A : New EM model developments

Contribution ID: **62**

Type: **not specified**

Atomic deexcitation modelling

Monday, 10 September 2012 15:10 (20 minutes)

Presenter: MANTERO, Alfonso

Session Classification: Parallel session 1A : New EM model developments

Contribution ID: **63**

Type: **not specified**

Discussion on model development

Presenter: INCERTI, Sebastien Laurent (Centre National de la Recherche Scientifique (FR))

Contribution ID: 64

Type: **not specified**

Validation of high energy muon scattering using L3 data

Monday, 10 September 2012 16:00 (20 minutes)

Presenter: SCHENK, Michael

Session Classification: Parallel session 2A : New EM validation results

Contribution ID: 65

Type: **not specified**

American Association of Physicists in Medicine (AAPM) Task Force Group on Monte Carlo Validation Sets: Geant4 related findings

Monday, 10 September 2012 16:20 (20 minutes)

Presenter: Mr SECHOPOULOS, Ioannis

Session Classification: Parallel session 2A : New EM validation results

Contribution ID: **66**

Type: **not specified**

Validation of gamma processes

Monday, 10 September 2012 16:40 (20 minutes)

Presenter: IVANTCHENKO, Anton (Geant 4 Associates International Experts in Radiation Simulation)

Session Classification: Parallel session 2A : New EM validation results

Contribution ID: 67

Type: **not specified**

NCC proton therapy validation activities

Monday, 10 September 2012 17:00 (20 minutes)

Presenter: Dr LEE, Se Byeong

Session Classification: Parallel session 2A : New EM validation results

Contribution ID: **68**

Type: **not specified**

RBE computations in Geant4 medical applications

Monday, 10 September 2012 17:20 (20 minutes)

Presenter: ROMANO, Francesco (Unknown)

Session Classification: Parallel session 2A : New EM validation results

Contribution ID: **69**

Type: **not specified**

Discussion on validation and Physics List

Monday, 10 September 2012 17:40 (20 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel session 2A : New EM validation results

Contribution ID: 70

Type: **not specified**

G4 on GPU: SLAC/Stanford/Nvidia/KEK prototype

Monday, 10 September 2012 17:20 (15 minutes)

Presenter: MURAKAMI, Koichi (High Energy Accelerator Research Organization (JP))

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 71

Type: **not specified**

G4 on GPU: Discussion

Monday, 10 September 2012 17:35 (10 minutes)

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 72

Type: **not specified**

Report on Vector Prototype

Monday, 10 September 2012 17:45 (15 minutes)

Primary author: GHEATA, Andrei (CERN)

Co-author: Mr CARMINATI, Federico (CERN)

Presenter: GHEATA, Andrei (CERN)

Session Classification: Parallel session 2B : Parallelization Efforts

Contribution ID: 73

Type: **not specified**

Developments in Geometry

Wednesday, 12 September 2012 09:00 (15 minutes)

Primary author: Dr COSMO, Gabriele (CERN)

Presenter: Dr COSMO, Gabriele (CERN)

Session Classification: Plenary session 5 : Ongoing Developments I (Non-Physics)

Contribution ID: 74

Type: **not specified**

New Developments in Analysis

Wednesday, 12 September 2012 09:15 (15 minutes)

Primary authors: Dr BARRAND, Guy (Universite de Paris-Sud 11 (FR)); Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Plenary session 5 : Ongoing Developments I (Non-Physics)

Contribution ID: 75

Type: **not specified**

Progress in Extended Examples

Wednesday, 12 September 2012 09:30 (20 minutes)

Primary authors: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR)); GUMPLINGER, Peter (Eidgenossische Technische Hochschule Zurich/ETH (ETH))

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Plenary session 5 : Ongoing Developments I (Non-Physics)

Contribution ID: 76

Type: **not specified**

CMS requirements on multi-threading

Presenter: Dr JONES, Christopher (Fermi National Accelerator Lab. (US))

Contribution ID: 77

Type: **not specified**

CMS requirements on multi-threading

Monday, 10 September 2012 11:00 (15 minutes)

Presenters: Dr JONES, Christopher (Fermi National Accelerator Lab. (US)); SEXTON-KENNEDY, Elizabeth (Fermi National Accelerator Lab. (US))

Session Classification: Plenary session 2 : Open Requirements / Collaboration Tools

Contribution ID: 78

Type: **not specified**

LHCb requirements on CMake configuration

Monday, 10 September 2012 11:15 (15 minutes)

Presenter: POKORSKI, Witold (CERN)

Session Classification: Plenary session 2 : Open Requirements / Collaboration Tools

Contribution ID: 79

Type: **not specified**

CMake, CMakeLists.txt and SVN

Monday, 10 September 2012 11:30 (15 minutes)

Presenter: Dr MORGAN, Benjamin (University of Warwick)

Session Classification: Plenary session 2 : Open Requirements / Collaboration Tools

Contribution ID: **80**

Type: **not specified**

Unit test and integration test

Monday, 10 September 2012 11:45 (15 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary session 2 : Open Requirements / Collaboration Tools

Contribution ID: **81**

Type: **not specified**

Performance monitoring

Monday, 10 September 2012 12:00 (15 minutes)

Presenter: Dr JUN, Soon Yung (Fermi National Accelerator Lab. (US))

Session Classification: Plenary session 2 : Open Requirements / Collaboration Tools

Contribution ID: **82**

Type: **not specified**

Testing Geant4 using Cmake/Ctest/Cdash

Monday, 10 September 2012 12:15 (15 minutes)

Presenter: Dr MATO VILA, Pere (CERN)

Session Classification: Plenary session 2 : Open Requirements / Collaboration Tools

Contribution ID: **83**

Type: **not specified**

Report from parallel session 1A

Friday, 14 September 2012 09:00 (10 minutes)

Presenter: Dr SANTIN, Giovanni (ESA)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: **84**

Type: **not specified**

Report from parallel session 1B

Friday, 14 September 2012 09:10 (10 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: 85

Type: **not specified**

Report from parallel session 5B

Friday, 14 September 2012 11:00 (10 minutes)

Presenter: Dr COSMO, Gabriele (CERN)

Session Classification: Plenary session 10 : Closing Session

Contribution ID: **86**

Type: **not specified**

Report from parallel session 2A

Friday, 14 September 2012 09:20 (10 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: 87

Type: **not specified**

Report from parallel session 2B

Friday, 14 September 2012 09:30 (10 minutes)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: **88**

Type: **not specified**

Report from parallel session 3A

Friday, 14 September 2012 09:40 (10 minutes)

Presenter: YARBA, Julia (Fermi National Accelerator Lab. (US))

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: **89**

Type: **not specified**

Report from parallel session 3B

Friday, 14 September 2012 09:50 (10 minutes)

Presenter: Dr MORGAN, Benjamin (University of Warwick)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: **90**

Type: **not specified**

Report from parallel session 4A

Friday, 14 September 2012 10:00 (10 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: **91**

Type: **not specified**

Report from parallel session 4B

Friday, 14 September 2012 10:10 (10 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: 92

Type: **not specified**

Report from parallel session 6A

Friday, 14 September 2012 11:10 (10 minutes)

Presenter: WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 10 : Closing Session

Contribution ID: 93

Type: **not specified**

Report from parallel session 5A

Friday, 14 September 2012 10:20 (10 minutes)

Presenter: QUESADA MOLINA, Jose Manuel (Universidad de Sevilla (ES))

Session Classification: Plenary session 9 : Parallel Session Reports

Contribution ID: 94

Type: **not specified**

Report from parallel session 6B

Friday, 14 September 2012 11:20 (10 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Plenary session 10 : Closing Session

Contribution ID: 95

Type: **not specified**

Report from parallel session 7A

Friday, 14 September 2012 11:30 (10 minutes)

Presenter: DOTTI, Andrea (Geant 4 Associates International Experts in Radiation Simulatio)

Session Classification: Plenary session 10 : Closing Session

Contribution ID: 96

Type: **not specified**

Report from parallel session 7B

Friday, 14 September 2012 11:40 (10 minutes)

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Plenary session 10 : Closing Session

Contribution ID: 97

Type: **not specified**

Report from parallel session 8A

Friday, 14 September 2012 11:50 (10 minutes)

Presenter: Dr RIBON, Alberto (CERN)

Session Classification: Plenary session 10 : Closing Session

Contribution ID: **98**

Type: **not specified**

Report from parallel session 8B

Friday, 14 September 2012 12:00 (10 minutes)

Presenter: Dr VERDERI, Marc (Ecole Polytechnique (FR))

Session Classification: Plenary session 10 : Closing Session

Contribution ID: 99

Type: **not specified**

Release schedule

Friday, 14 September 2012 12:10 (10 minutes)

Presenter: Dr COSMO, Gabriele (CERN)

Session Classification: Plenary session 10 : Closing Session

Contribution ID: **100**

Type: **not specified**

Closing remarks

Friday, 14 September 2012 12:20 (10 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 10 : Closing Session

Contribution ID: **101**

Type: **not specified**

Unified Solids

Wednesday, 12 September 2012 14:00 (30 minutes)

Presenter: GAYER, Marek (CERN)

Session Classification: Parallel session 5B : Geometry WG working session

Contribution ID: **102**

Type: **not specified**

CAD to GDML converter

Wednesday, 12 September 2012 14:30 (10 minutes)

Presenter: DELAGE, Emmanuel (Laboratoire de Physique Corpusculaire (LPC))

Session Classification: Parallel session 5B : Geometry WG working session

Contribution ID: **103**

Type: **not specified**

Surface-normal on global coordinates issue

Wednesday, 12 September 2012 14:40 (20 minutes)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Parallel session 5B : Geometry WG working session

Contribution ID: **104**

Type: **not specified**

Review of thread-safety for sharable data in geometry classes

Wednesday, 12 September 2012 15:00 (20 minutes)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Parallel session 5B : Geometry WG working session

Contribution ID: **105**

Type: **not specified**

Discussion

Wednesday, 12 September 2012 15:20 (10 minutes)

Session Classification: Parallel session 5B : Geometry WG working session

Contribution ID: **106**

Type: **not specified**

Muon stopping

Thursday, 13 September 2012 16:00 (20 minutes)

Primary author: GENSER, Krzysztof (Fermi National Accelerator Laboratory (US))

Presenter: GENSER, Krzysztof (Fermi National Accelerator Laboratory (US))

Session Classification: Parallel session 8A : Hadronic Discussion

Contribution ID: **107**

Type: **not specified**

How to treat consistently "hybrid processes", like electro-nuclear; the problem of hadronic dependencies

Thursday, 13 September 2012 16:20 (20 minutes)

Presenter: WRIGHT, Dennis Herbert (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 8A : Hadronic Discussion

Contribution ID: **108**

Type: **not specified**

How to make hadronics workable for nuclear physics

Thursday, 13 September 2012 16:40 (20 minutes)

Presenter: MAIRE, Michel (LAPP)

Session Classification: Parallel session 8A : Hadronic Discussion

Contribution ID: **109**

Type: **not specified**

Access to Datasets

Thursday, 13 September 2012 17:00 (20 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel session 8A : Hadronic Discussion

Contribution ID: **110**

Type: **not specified**

Better modularization of the hadronic physics library, e.g. compiling G4 without CHIPS

Thursday, 13 September 2012 17:40 (20 minutes)

Presenter: POKORSKI, Witold (CERN)

Session Classification: Parallel session 8A : Hadronic Discussion

Contribution ID: **111**

Type: **not specified**

Release schedule and deadlines

Presenter: Dr COSMO, Gabriele (CERN)

Contribution ID: 112

Type: **not specified**

Merging Geant4-MT to the main development trunk and deadlines

Wednesday, 12 September 2012 11:00 (25 minutes)

Presenter: Dr COSMO, Gabriele (CERN)

Session Classification: Plenary session 6 : Towards Geant4 version X, part 1

Contribution ID: 113

Type: **not specified**

Foreseen key interface changes in kernel and common users classes

Wednesday, 12 September 2012 11:25 (15 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 6 : Towards Geant4 version X, part 1

Contribution ID: 114

Type: **not specified**

How to migrate an application to Geant4 MT

Wednesday, 12 September 2012 11:40 (10 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 6 : Towards Geant4 version X, part 1

Contribution ID: 115

Type: **not specified**

Geant4-MT migration and Examples issues

Wednesday, 12 September 2012 11:50 (15 minutes)

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Plenary session 6 : Towards Geant4 version X, part 1

Contribution ID: **116**

Type: **not specified**

Geant4-MT migration and Visualization issues

Wednesday, 12 September 2012 12:05 (12 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Plenary session 6 : Towards Geant4 version X, part 1

Contribution ID: **117**

Type: **not specified**

Status and Evolution of Geant4 GUI

Wednesday, 12 September 2012 09:50 (15 minutes)

Presenter: Mr GARNIER, Laurent (LAL-IN2P3-CNRS)

Session Classification: Plenary session 5 : Ongoing Developments I (Non-Physics)

Contribution ID: **118**

Type: **not specified**

Introduction and Aims

Tuesday, 11 September 2012 14:00 (10 minutes)

Presenter: Dr MORGAN, Benjamin (University of Warwick)

Session Classification: Parallel session 3B : Tools for Development and Testing of Geant4 Libraries and Applications

Contribution ID: **119**

Type: **not specified**

Topics from Attendees

Tuesday, 11 September 2012 14:10 (10 minutes)

Addition of discussion topics, comments, ideas from audience

Presenter: Dr MORGAN, Benjamin (University of Warwick)

Session Classification: Parallel session 3B : Tools for Development and Testing of Geant4 Libraries and Applications

Contribution ID: **120**

Type: **not specified**

Geant4-MT migration and GUI issues

Wednesday, 12 September 2012 12:17 (13 minutes)

Presenter: MURAKAMI, Koichi (High Energy Accelerator Research Organization (JP))

Session Classification: Plenary session 6 : Towards Geant4 version X, part 1

Contribution ID: **121**

Type: **not specified**

Making Bertini more physically realistic

Thursday, 13 September 2012 17:20 (20 minutes)

Presenter: KELSEY, Michael (SLAC National Accelerator Laboratory (US))

Session Classification: Parallel session 8A : Hadronic Discussion

Contribution ID: 122

Type: **not specified**

The X-Ray Rayleigh scattering model for EM standard package

Monday, 10 September 2012 14:20 (10 minutes)

Presenter: GRICHINE, Vladimir (Russian Academy of Sciences (RU))

Session Classification: Parallel session 1A : New EM model developments

Contribution ID: **123**

Type: **not specified**

Status of Work on Extended Examples

Thursday, 13 September 2012 14:00 (30 minutes)

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Parallel session 7B : Work on Extended Examples

Contribution ID: 124

Type: **not specified**

Visualization commands in examples

Thursday, 13 September 2012 14:30 (15 minutes)

Presenter: ALLISON, John (University of Manchester (GB))

Session Classification: Parallel session 7B : Work on Extended Examples

Contribution ID: 125

Type: **not specified**

New Classes of General Interest: G4CommandLineOptions, G4RejectionTechnique, G4StatisticalManager

Thursday, 13 September 2012 14:45 (20 minutes)

Presenter: MADSEN, Jonathan

Session Classification: Parallel session 7B : Work on Extended Examples

Contribution ID: 126

Type: **not specified**

EM examples review; Proposal for G4UserParameters Class

Thursday, 13 September 2012 15:05 (15 minutes)

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Parallel session 7B : Work on Extended Examples

Contribution ID: **127**

Type: **not specified**

AOB

Thursday, 13 September 2012 15:20 (10 minutes)

Session Classification: Parallel session 7B : Work on Extended Examples

Contribution ID: 128

Type: **not specified**

Updates on Run, Event and Detector WG

Wednesday, 12 September 2012 10:05 (15 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 5 : Ongoing Developments I (Non-Physics)

Contribution ID: **129**

Type: **not specified**

Progress in EM

Thursday, 13 September 2012 16:00 (20 minutes)

Primary author: SAWKEY, Daren (Varian Compagny)

Presenter: SAWKEY, Daren Lewis

Session Classification: Parallel session 8B : Event Biasing

Contribution ID: 130

Type: **not specified**

Progress on occurrence biasing: formalism, ToyMC validation, case of varying cross-sections

Thursday, 13 September 2012 16:20 (20 minutes)

Primary author: DESORGHER, Laurent (SpaceIT GmbH)

Presenter: DESORGHER, Laurent (SpaceIT GmbH)

Session Classification: Parallel session 8B : Event Biasing

Contribution ID: 131

Type: **not specified**

Final state biasing: forced flight (along direction), other ?

Thursday, 13 September 2012 17:00 (20 minutes)

Presenter: Dr VERDERI, Marc (Ecole Polytechnique (FR))

Session Classification: Parallel session 8B : Event Biasing

Contribution ID: 132

Type: **not specified**

Geometry biasing facilities

Thursday, 13 September 2012 16:40 (20 minutes)

Presenter: HOWARD, Alexander (Eidgenoessische Tech. Hochschule Zuerich (CH))

Session Classification: Parallel session 8B : Event Biasing

Contribution ID: 133

Type: **not specified**

General Discussion : -feedback on design; -plans for 9.6; -plans for X

Thursday, 13 September 2012 17:20 (40 minutes)

Session Classification: Parallel session 8B : Event Biasing

Contribution ID: 134

Type: **not specified**

cvmfs to distribute Geant4

Monday, 10 September 2012 14:55 (15 minutes)

Presenter: DOTTI, Andrea (Geant 4 Associates International Experts in Radiation Simulatio)

Session Classification: Parallel session 1B: Testing and QA

Contribution ID: 135

Type: **not specified**

Physics List

Wednesday, 12 September 2012 10:20 (10 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary session 5 : Ongoing Developments I (Non-Physics)

Contribution ID: 136

Type: **not specified**

Performance monitoring

Thursday, 13 September 2012 10:00 (15 minutes)

Presenter: Dr JUN, Soon Yung (Fermi National Accelerator Lab. (US))

Session Classification: Plenary session 7 : Ongoing Developments II (Physics)

Contribution ID: **137**

Type: **not specified**

Introduction

Thursday, 13 September 2012 11:00 (5 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **138**

Type: **not specified**

Run, Event & Detector WG

Thursday, 13 September 2012 11:05 (5 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **139**

Type: **not specified**

Tracking WG

Thursday, 13 September 2012 11:10 (5 minutes)

Presenter: SASAKI, Takashi (High Energy Accelerator Research Organization)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **140**

Type: **not specified**

Geometry WG

Thursday, 13 September 2012 11:15 (5 minutes)

Presenter: Dr COSMO, Gabriele (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **141**

Type: **not specified**

Particle & Track WG

Thursday, 13 September 2012 11:20 (5 minutes)

Presenter: KURASHIGE, Hisaya (Kobe University (JP))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: 142

Type: **not specified**

Processes & Material WG

Thursday, 13 September 2012 11:25 (5 minutes)

Presenter: Dr VERDERI, Marc (Ecole Polytechnique (FR))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **143**

Type: **not specified**

Standard EM WG

Thursday, 13 September 2012 11:30 (5 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **144**

Type: **not specified**

Low-energy EM WG

Thursday, 13 September 2012 11:35 (5 minutes)

Presenter: INCERTI, Sebastien Laurent (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: 145

Type: **not specified**

Hadronics WG

Thursday, 13 September 2012 11:40 (5 minutes)

Presenter: Dr RIBON, Alberto (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: 146

Type: **not specified**

Persistency WG

Thursday, 13 September 2012 11:45 (5 minutes)

Presenter: Dr COSMO, Gabriele (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: 147

Type: **not specified**

User & Category Interfaces WG

Thursday, 13 September 2012 11:50 (5 minutes)

Presenter: MURAKAMI, Koichi (High Energy Accelerator Research Organization (JP))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **148**

Type: **not specified**

Visualization WG

Thursday, 13 September 2012 11:55 (5 minutes)

Presenter: PERL, Joseph (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: 149

Type: **not specified**

Novice & Extended Examples WG

Thursday, 13 September 2012 12:00 (5 minutes)

Presenter: Dr HRIVNACOVA, Ivana (Universite de Paris-Sud 11 (FR))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **150**

Type: **not specified**

Advanced Examples WG

Thursday, 13 September 2012 12:05 (5 minutes)

Presenter: ROMANO, Francesco (Unknown)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **151**

Type: **not specified**

Documentation WG

Thursday, 13 September 2012 12:10 (5 minutes)

Presenter: ASAI, Makoto (SLAC National Accelerator Laboratory (US))

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **152**

Type: **not specified**

Software Management WG

Thursday, 13 September 2012 12:15 (5 minutes)

Presenter: Dr MORGAN, Benjamin (University of Warwick)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: 153

Type: **not specified**

Testing & Quality Assurance WG

Thursday, 13 September 2012 12:20 (5 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2

Contribution ID: **154**

Type: **not specified**

Physics List

Thursday, 13 September 2012 12:25 (5 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary session 8 : Towards Geant4 version X, part 2