

16th Geant4 Collaboration Meeting

Report of Contributions

Contribution ID: 0

Type: **not specified**

Low-background Experiments

Wednesday, 21 September 2011 13:30 (15 minutes)

Presenter: Dr WRIGHT, Dennis (SLAC)

Session Classification: Parallel 5A (Hadronic): Feedback and Requirements From Experiments

Contribution ID: 1

Type: **not specified**

Proton collider experiments

Wednesday, 21 September 2011 13:45 (15 minutes)

Presenters: Dr RIBON, Alberto (CERN); Dr DOTTI, Andrea (CERN); Dr APOSTOLAKIS, John (CERN); Dr KELSEY, Michael (SLAC National Accelerator Laboratory); BANERJEE, Sunanda (Tata Institute of Fundamental Research); Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 5A (Hadronic): Feedback and Requirements From Experiments

Contribution ID: 2

Type: **not specified**

Space physics

Wednesday, 21 September 2011 14:15 (15 minutes)

Presenter: ALLISON, John (Geant4 Associates)

Session Classification: Parallel 5A (Hadronic): Feedback and Requirements From Experiments

Contribution ID: 3

Type: **not specified**

Medical applications

Wednesday, 21 September 2011 14:30 (15 minutes)

Presenter: Dr PERL, Joseph (SLAC National Accelerator Laboratory)

Session Classification: Parallel 5A (Hadronic): Feedback and Requirements From Experiments

Contribution ID: 4

Type: **not specified**

Linear Collider Experiments

Wednesday, 21 September 2011 14:00 (15 minutes)

Primary author: Dr GARUTTI, Erika (DESY (CALICE))

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

Session Classification: Parallel 5A (Hadronic): Feedback and Requirements From Experiments

Contribution ID: 5

Type: **not specified**

Introduction

Monday, 19 September 2011 14:00 (10 minutes)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Parallel 1A (Hadronic): Code Maintenance

Contribution ID: 6

Type: **not specified**

Methods and Experiences

Monday, 19 September 2011 14:10 (50 minutes)

Session Classification: Parallel 1A (Hadronic): Code Maintenance

Contribution ID: 7

Type: **not specified**

Planning

Monday, 19 September 2011 15:00 (30 minutes)

Session Classification: Parallel 1A (Hadronic): Code Maintenance

Contribution ID: 8

Type: **not specified**

Architecture Team Report

Friday, 23 September 2011 11:00 (15 minutes)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Plenary 10: Closing Session

Contribution ID: 9

Type: **not specified**

Requirements Tracking System

Friday, 23 September 2011 11:15 (15 minutes)

Presenter: Dr MURAKAMI, Koichi (KEK/CRC)

Session Classification: Plenary 10: Closing Session

Contribution ID: **10**

Type: **not specified**

Publication Policy and Procedures

Friday, 23 September 2011 11:30 (15 minutes)

Presenter: Dr WRIGHT, Dennis (SLAC)

Session Classification: Plenary 10: Closing Session

Contribution ID: **11**

Type: **not specified**

9.5 Release

Friday, 23 September 2011 11:45 (15 minutes)

Presenter: Dr COSMO, Gabriele (CERN - European Organization for Nuclear Research)

Session Classification: Plenary 10: Closing Session

Contribution ID: 12

Type: **not specified**

Perspectives and Closing Remarks

Friday, 23 September 2011 12:00 (30 minutes)

Presenter: ASAI, Makoto (SLAC)

Session Classification: Plenary 10: Closing Session

Contribution ID: 13

Type: **not specified**

Summary of Hadronic Validation Coverage

Tuesday, 20 September 2011 11:00 (17 minutes)

Presenter: Dr YARBA, Julia (FNAL)

Session Classification: Plenary 4: Coverage of Physics Validations (Hadronic)

Contribution ID: 14

Type: **not specified**

Validation Plans

Tuesday, 20 September 2011 11:51 (17 minutes)

Presenter: Dr WRIGHT, Dennis (SLAC)

Session Classification: Plenary 4: Coverage of Physics Validations (Hadronic)

Contribution ID: 15

Type: **not specified**

MIPP Validation

Tuesday, 20 September 2011 11:17 (17 minutes)

Presenter: Dr BANERJEE, Sunanda (SINP)

Session Classification: Plenary 4: Coverage of Physics Validations (Hadronic)

Contribution ID: 16

Type: **not specified**

Unified Validation Framework

Tuesday, 20 September 2011 11:34 (17 minutes)

Presenter: Dr WENZEL, Hans (FNAL)

Session Classification: Plenary 4: Coverage of Physics Validations (Hadronic)

Contribution ID: 17

Type: **not specified**

Discussion

Tuesday, 20 September 2011 12:08 (22 minutes)

Session Classification: Plenary 4: Coverage of Physics Validations (Hadronic)

Contribution ID: **18**

Type: **not specified**

Building Geant4 with CMake: Status and Plans

Monday, 19 September 2011 11:00 (20 minutes)

Presenter: Dr MORGAN, Ben (University of Warwick)

Session Classification: Plenary 2: Collaboration Tools and Duties

Contribution ID: 19

Type: **not specified**

Testing and Packaging Geant4 with CTest and CPack

Monday, 19 September 2011 11:20 (15 minutes)

Presenter: Dr MATO, Pere (CERN)

Session Classification: Plenary 2: Collaboration Tools and Duties

Contribution ID: 20

Type: **not specified**

System Testing Duty Management

Monday, 19 September 2011 11:55 (15 minutes)

Presenter: Dr DOTTI, Andrea (CERN)

Session Classification: Plenary 2: Collaboration Tools and Duties

Contribution ID: 21

Type: **not specified**

Parallel 1A (Hadronic): Code Maintenance

Friday, 23 September 2011 08:30 (8 minutes)

Primary author: Dr APOSTOLAKIS, John (CERN)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 22

Type: **not specified**

Parallel 1B: New Novice & Extended Examples

Friday, 23 September 2011 08:38 (8 minutes)

Primary author: HRIVNACOVA, Ivana (IN2P3/IPN Orsay)

Presenter: HRIVNACOVA, Ivana (IN2P3/IPN Orsay)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 23

Type: **not specified**

Parallel 2A (Hadronic): Development Issues

Friday, 23 September 2011 08:46 (8 minutes)

Primary author: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Presenter: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 24

Type: **not specified**

Parallel 2B (EM): New EM verifications

Friday, 23 September 2011 08:54 (8 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 25

Type: **not specified**

Parallel 3A (Hadronic): Improving Interfaces

Friday, 23 September 2011 09:02 (8 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 26

Type: **not specified**

Parallel 3B: Geant4-MT

Friday, 23 September 2011 09:10 (8 minutes)

Primary author: ASAI, Makoto (SLAC)

Presenter: ASAI, Makoto (SLAC)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 27

Type: **not specified**

Parallel 4A (Hadronic): Validation

Friday, 23 September 2011 09:18 (8 minutes)

Primary author: Dr DOTTI, Andrea (CERN)

Presenter: Dr DOTTI, Andrea (CERN)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 28

Type: **not specified**

Parallel 4B: Visualization

Friday, 23 September 2011 09:26 (8 minutes)

Primary author: PERL, Joseph (SLAC)

Presenter: PERL, Joseph (SLAC)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 29

Type: **not specified**

Parallel 5A (Hadronic): Feedback and Requirements From Experiments

Friday, 23 September 2011 09:34 (8 minutes)

Primary author: Dr KELSEY, Michael (SLAC National Accelerator Laboratory)

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

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: **30**

Type: **not specified**

Parallel 5B: Tracking Optical Photons

Friday, 23 September 2011 09:42 (8 minutes)

Primary author: KURASHIGE, Hisaya (Kobe Univ.)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 31

Type: **not specified**

Parallel 6A: Geometry Working Session

Friday, 23 September 2011 09:50 (8 minutes)

Primary author: Dr COSMO, Gabriele (CERN - European Organization for Nuclear Research)

Presenter: Dr COSMO, Gabriele (CERN - European Organization for Nuclear Research)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 32

Type: **not specified**

Parallel 6B: Biasing options

Friday, 23 September 2011 09:58 (8 minutes)

Primary author: VERDERI, Marc (LLR, Ecole polytechnique)

Presenter: VERDERI, Marc (LLR, Ecole polytechnique)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 33

Type: **not specified**

Parallel 7A (EM): New EM model development

Friday, 23 September 2011 10:06 (8 minutes)

Primary authors: Dr PANDOLA, Luciano (INFN - LNGS); Prof. IVANTCHENKO, Vladimir (CERN)

Presenters: Dr PANDOLA, Luciano (INFN - LNGS); Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 34

Type: **not specified**

parallel 7B: Geant4 Performance

Friday, 23 September 2011 10:14 (8 minutes)

Primary author: Dr ELVIRA, V. Daniel (Fermilab)

Presenter: Dr ELVIRA, V. Daniel (Fermilab)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 35

Type: **not specified**

Parallel 8A: Open discussion slot

Contribution ID: 36

Type: **not specified**

Parallel 8B: Towards Reengineering Geant4

Friday, 23 September 2011 10:22 (8 minutes)

Primary author: KURASHIGE, Hisaya (Kobe Univ.)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Plenary 9: Parallel Session Reports

Contribution ID: 37

Type: **not specified**

Coding rules/guidelines

Wednesday, 21 September 2011 08:30 (20 minutes)

Presenter: HRIVNACOVA, Ivana (IN2P3/IPN Orsay)

Session Classification: Plenary 5: Software Development I

Contribution ID: **38**

Type: **not specified**

Hints for writing thread-safe code

Wednesday, 21 September 2011 08:50 (25 minutes)

Presenter: Dr COOPERMAN, Gene (Northeastern University)

Session Classification: Plenary 5: Software Development I

Contribution ID: 39

Type: **not specified**

Adapting the user code to use Geant4-MT

Wednesday, 21 September 2011 09:15 (25 minutes)

Presenter: Mr DONG, Xin (Northeastern University)

Session Classification: Plenary 5: Software Development I

Contribution ID: 40

Type: **not specified**

The new Geant4 Requirements Tracking system

Wednesday, 21 September 2011 09:40 (20 minutes)

Presenter: Dr MURAKAMI, Koichi (KEK/CRC)

Session Classification: Plenary 5: Software Development I

Contribution ID: 41

Type: **not specified**

New scheme of calculation of velocity

Wednesday, 21 September 2011 13:30 (15 minutes)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Parallel 5B: Tracking Optical Photons

Contribution ID: 42

Type: **not specified**

Optical photon tracking at XMASS

Wednesday, 21 September 2011 14:00 (30 minutes)

Presenters: Mr HOSOKAWA, Keishi (Kobe Univ.); Dr ABE, Ko (ICRR)

Session Classification: Parallel 5B: Tracking Optical Photons

Contribution ID: 43

Type: **not specified**

Optical photon processes

Wednesday, 21 September 2011 14:30 (15 minutes)

Presenter: Dr GUMPLINGER, Peter (TRIUMF)

Session Classification: Parallel 5B: Tracking Optical Photons

Contribution ID: 44

Type: **not specified**

Kernel + Parallel layered mass geometry

Thursday, 22 September 2011 08:30 (20 minutes)

Presenter: ASAI, Makoto (SLAC)

Session Classification: Plenary 7: Ongoing Developments I (Non-Physics)

Contribution ID: 45

Type: **not specified**

Geometry

Thursday, 22 September 2011 08:50 (20 minutes)

Presenter: Dr COSMO, Gabriele (CERN - European Organization for Nuclear Research)

Session Classification: Plenary 7: Ongoing Developments I (Non-Physics)

Contribution ID: 46

Type: **not specified**

PhysicsList

Thursday, 22 September 2011 09:10 (20 minutes)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Plenary 7: Ongoing Developments I (Non-Physics)

Contribution ID: 47

Type: **not specified**

Event Biasing

Thursday, 22 September 2011 09:30 (20 minutes)

Presenter: VERDERI, Marc (LLR, Ecole polytechnique)

Session Classification: Plenary 7: Ongoing Developments I (Non-Physics)

Contribution ID: 48

Type: **not specified**

Analysis tool and manager classes

Thursday, 22 September 2011 09:50 (20 minutes)

Presenters: Dr BARRAND, Guy (IN2P3/LAL); HRIVNACOVA, Ivana (IN2P3/IPN Orsay)

Session Classification: Plenary 7: Ongoing Developments I (Non-Physics)

Contribution ID: 50

Type: **not specified**

Novice and Extended Examples

Thursday, 22 September 2011 10:10 (20 minutes)

Presenter: HRIVNACOVA, Ivana (IN2P3/IPN Orsay)

Session Classification: Plenary 7: Ongoing Developments I (Non-Physics)

Contribution ID: 51

Type: **not specified**

Kenel improvements

Thursday, 22 September 2011 16:00 (20 minutes)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Parallel 8B: Towards Reengineering Geant4

Contribution ID: 52

Type: **not specified**

CLHEP in Geant4 9.5

Thursday, 22 September 2011 16:20 (20 minutes)

Presenter: Dr COSMO, Gabriele (CERN - European Organization for Nuclear Research)

Session Classification: Parallel 8B: Towards Reengineering Geant4

Contribution ID: 53

Type: **not specified**

Ideas for G4 re-engineering

Thursday, 22 September 2011 16:40 (20 minutes)

Presenters: Mr CANAL, Philippe (FERMILAB); Dr ELVIRA, V. Daniel (Fermilab)

Session Classification: Parallel 8B: Towards Reengineering Geant4

Contribution ID: 54

Type: **not specified**

A new general framework

Thursday, 22 September 2011 17:00 (20 minutes)

Presenter: Dr MATO, Pere (CERN)

Session Classification: Parallel 8B: Towards Reengineering Geant4

Contribution ID: 55

Type: **not specified**

Discussions

Thursday, 22 September 2011 17:20 (30 minutes)

Presenter: KURASHIGE, Hisaya (Kobe Univ.)

Session Classification: Parallel 8B: Towards Reengineering Geant4

Contribution ID: 56

Type: **not specified**

Interface Extension for GRAS/ELSHIELD/Space project with G4AI

Wednesday, 21 September 2011 15:45 (15 minutes)

Primary author: HOWARD, Alexander

Presenter: HOWARD, Alexander

Session Classification: Parallel 6B: Biasing options

Contribution ID: 57

Type: **not specified**

Biasing for EM physics

Wednesday, 21 September 2011 15:15 (15 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 6B: Biasing options

Contribution ID: 58

Type: **not specified**

FTF Development

Monday, 19 September 2011 16:00 (15 minutes)

Primary author: Prof. UZHINSKY, Vladimir (CERN)

Presenter: Prof. UZHINSKY, Vladimir (CERN)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: 59

Type: **not specified**

Bertini Development

Monday, 19 September 2011 16:15 (10 minutes)

Primary author: Dr KELSEY, Michael (SLAC National Accelerator Laboratory)

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

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **60**

Type: **not specified**

Radio Active Decay

Monday, 19 September 2011 16:25 (15 minutes)

Primary author: Dr DESORGHER, Laurent (SapceIT GmbH)

Presenter: Dr DESORGHER, Laurent (SapceIT GmbH)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **61**

Type: **not specified**

Stoping Particle Development

Monday, 19 September 2011 16:50 (10 minutes)

Primary author: Dr YARBA, Julia (FNAL)

Presenter: Dr YARBA, Julia (FNAL)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **62**

Type: **not specified**

Ion Validation

Monday, 19 September 2011 16:40 (10 minutes)

Primary author: Dr IVANTCHENKO, Anton (CERN/Geant4 Associates International Ltd)

Presenter: Dr IVANTCHENKO, Anton (CERN/Geant4 Associates International Ltd)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **63**

Type: **not specified**

Charged Particle HP

Monday, 19 September 2011 17:00 (20 minutes)

Primary author: Dr PEDRO, Arce (CIEMAT)

Presenter: Dr PEDRO, Arce (CIEMAT)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **64**

Type: **not specified**

Neutron HP updates

Monday, 19 September 2011 17:27 (7 minutes)

Primary author: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Presenter: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: 65

Type: **not specified**

LEND develeopmnet

Monday, 19 September 2011 17:34 (15 minutes)

Primary author: Dr BECK, Bret (Lawrence Livermore National Lab.)

Presenter: Dr BECK, Bret (Lawrence Livermore National Lab.)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **66**

Type: **not specified**

General Discussion

Monday, 19 September 2011 17:49 (11 minutes)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: 67

Type: **not specified**

Phonon Tracking for CDMS

Wednesday, 21 September 2011 13:45 (15 minutes)

Presenter: Dr BRANDT, Daniel (SLAC National Accelerator Laboratory)

Session Classification: Parallel 5B: Tracking Optical Photons

Contribution ID: **68**

Type: **not specified**

Validation of Hadronic physics with LHC Data

Tuesday, 20 September 2011 17:20 (20 minutes)

Presenter: Dr RIBON, Alberto (CERN)

Session Classification: Parallel 4A (Hadronic): Validation

Contribution ID: 69

Type: **not specified**

Validation of Geant4 Models (Ion/Ion)

Tuesday, 20 September 2011 16:20 (20 minutes)

Presenters: Dr IVANTCHENKO, Anton (CERN/Geant4 Associates International Ltd); Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 4A (Hadronic): Validation

Contribution ID: 70

Type: **not specified**

Validation of Hadronic Physics with thin target (test3X)

Tuesday, 20 September 2011 16:00 (20 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 4A (Hadronic): Validation

Contribution ID: 71

Type: **not specified**

Validation of Hadronic Physics: Low Energy models

Tuesday, 20 September 2011 16:40 (20 minutes)

Presenter: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Session Classification: Parallel 4A (Hadronic): Validation

Contribution ID: 72

Type: **not specified**

Validation of Hadronic Physics: MIPP data

Tuesday, 20 September 2011 17:00 (20 minutes)

Presenter: BANERJEE, Sunanda (Saha Institute of Nuclear Physics)

Session Classification: Parallel 4A (Hadronic): Validation

Contribution ID: 73

Type: **not specified**

Validation of Hadronic Physics: Simplified Calorimeter

Tuesday, 20 September 2011 17:40 (20 minutes)

Presenter: Dr DOTTI, Andrea (CERN)

Session Classification: Parallel 4A (Hadronic): Validation

Contribution ID: 74

Type: **not specified**

Current Developments in Hadronic Physics

Thursday, 22 September 2011 11:00 (30 minutes)

Presenters: Dr WRIGHT, Dennis (SLAC); Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Session Classification: Plenary 8: Ongoing Developments II (Physics)

Contribution ID: 75

Type: **not specified**

New developments in Material and Standard EM

Thursday, 22 September 2011 11:30 (25 minutes)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary 8: Ongoing Developments II (Physics)

Contribution ID: 76

Type: **not specified**

New developments in Low-EM

Thursday, 22 September 2011 11:55 (20 minutes)

Presenter: Dr INCERTI, SEBASTIEN (CNRS/IN2P3)

Session Classification: Plenary 8: Ongoing Developments II (Physics)

Contribution ID: 77

Type: **not specified**

Physics Lists

Thursday, 22 September 2011 12:15 (15 minutes)

Primary authors: Dr WRIGHT, Dennis (SLAC); FOLGER, Gunter (CERN)

Presenter: Dr DOTTI, Andrea (CERN)

Session Classification: Plenary 8: Ongoing Developments II (Physics)

Contribution ID: 78

Type: **not specified**

Memory Profiling using Igprof

Wednesday, 21 September 2011 11:10 (20 minutes)

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

Session Classification: Plenary 6: Software Development II

Contribution ID: 79

Type: **not specified**

Profiling G4 applications with FAST

Wednesday, 21 September 2011 10:30 (20 minutes)

Presenter: Dr GENSER, Krzysztof (FNAL)

Session Classification: Plenary 6: Software Development II

Contribution ID: **80**

Type: **not specified**

Code quality inspection with Coverity

Wednesday, 21 September 2011 10:50 (20 minutes)

Presenter: Dr COSMO, Gabriele (CERN - European Organization for Nuclear Research)

Session Classification: Plenary 6: Software Development II

Contribution ID: **81**

Type: **not specified**

G4 performance at LHC experiments

Thursday, 22 September 2011 14:00 (20 minutes)

Presenter: Dr APOSTOLAKIS, John (CERN)

Session Classification: parallel 7B: Geant4 Performance

Contribution ID: **82**

Type: **not specified**

Profiling Memory Usage in Hadronic Models

Thursday, 22 September 2011 14:20 (20 minutes)

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

Session Classification: parallel 7B: Geant4 Performance

Contribution ID: **83**

Type: **not specified**

Profiling G4 applications with FAST

Thursday, 22 September 2011 14:40 (20 minutes)

Presenter: GENSER, Krzysztof

Session Classification: parallel 7B: Geant4 Performance

Contribution ID: **84**

Type: **not specified**

Geant4MT performance studies

Thursday, 22 September 2011 15:00 (20 minutes)

Presenter: Mr CANAL, Philippe (FERMILAB)

Session Classification: parallel 7B: Geant4 Performance

Contribution ID: 85

Type: **not specified**

New de-excitation scheme

Thursday, 22 September 2011 14:00 (25 minutes)

Primary author: Dr MANTERO, Alfonso

Presenter: Dr MANTERO, Alfonso

Session Classification: Parallel 7A (EM): New EM model developments

Contribution ID: **86**

Type: **not specified**

Modeling radiation chemistry in Geant4

Thursday, 22 September 2011 14:25 (25 minutes)

Primary author: KARAMITROS, Mathieu

Presenter: KARAMITROS, Mathieu

Session Classification: Parallel 7A (EM): New EM model developments

Contribution ID: 87

Type: **not specified**

Discussion on release 9.5 developments and validation

Thursday, 22 September 2011 14:50 (25 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 7A (EM): New EM model developments

Contribution ID: **88**

Type: **not specified**

Discussion

Thursday, 22 September 2011 15:15 (15 minutes)

Session Classification: Parallel 7A (EM): New EM model developments

Contribution ID: **89**

Type: **not specified**

New test67 results

Monday, 19 September 2011 16:00 (30 minutes)

Primary author: Dr PANDOLA, Luciano (INFN - LNGS)

Presenter: Dr PANDOLA, Luciano (INFN - LNGS)

Session Classification: Parallel 2B (EM): New EM Verifications

Contribution ID: 90

Type: **not specified**

Toward automatic validation of electron multiple scattering

Monday, 19 September 2011 16:30 (30 minutes)

Primary author: SAWKEY, Daren (Varian Medical Systems)

Presenter: SAWKEY, Daren (Varian Medical Systems)

Session Classification: Parallel 2B (EM): New EM Verifications

Contribution ID: **91**

Type: **not specified**

Recent validation results

Monday, 19 September 2011 17:00 (30 minutes)

Primary author: Dr MAIRE, Michel (LAPP & G4AI)

Presenter: Dr MAIRE, Michel (LAPP & G4AI)

Session Classification: Parallel 2B (EM): New EM Verifications

Contribution ID: 92

Type: **not specified**

Validation results from ELSHIELD project

Monday, 19 September 2011 17:30 (30 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 2B (EM): New EM Verifications

Contribution ID: 93

Type: **not specified**

Recent validation and improvements of Geant4 standard EM package at low energies

Tuesday, 20 September 2011 08:30 (20 minutes)

Primary author: Prof. GRICHINE, Vladimir (LPI)

Presenter: Prof. GRICHINE, Vladimir (LPI)

Session Classification: Plenary 3: Coverage of Physics Validations (Std-EM, Low-E EM)

Contribution ID: 94

Type: **not specified**

Validation of multiple scattering

Tuesday, 20 September 2011 08:50 (20 minutes)

Presenter: URBAN, Laszlo (G4AI)

Session Classification: Plenary 3: Coverage of Physics Validations (Std-EM, Low-E EM)

Contribution ID: 95

Type: **not specified**

Penelope2008 validation

Tuesday, 20 September 2011 09:30 (20 minutes)

Primary author: Dr PANDOLA, Luciano (INFN - LNGS)

Presenter: Dr PANDOLA, Luciano (INFN - LNGS)

Session Classification: Plenary 3: Coverage of Physics Validations (Std-EM, Low-E EM)

Contribution ID: 96

Type: **not specified**

AAPM task group 195 benchmarking

Tuesday, 20 September 2011 09:50 (20 minutes)

Presenter: PERL, Joseph (SLAC)

Session Classification: Plenary 3: Coverage of Physics Validations (Std-EM, Low-E EM)

Contribution ID: 97

Type: **not specified**

New validation of electron transport

Tuesday, 20 September 2011 09:10 (20 minutes)

Primary author: Dr MAIRE, Michel (LAPP & G4AI)

Presenter: Dr MAIRE, Michel (LAPP & G4AI)

Session Classification: Plenary 3: Coverage of Physics Validations (Std-EM, Low-E EM)

Contribution ID: **98**

Type: **not specified**

Discussion

Tuesday, 20 September 2011 10:10 (20 minutes)

Session Classification: Plenary 3: Coverage of Physics Validations (Std-EM, Low-E EM)

Contribution ID: 99

Type: **not specified**

Cross section interface redesign

Tuesday, 20 September 2011 14:10 (20 minutes)

Primary author: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Presenter: Dr KOI, Tatsumi (SLAC National Accelerator Laboratory)

Session Classification: Parallel 3A (Hadronic): Improving Interfaces

Contribution ID: **100**

Type: **not specified**

Change of Bertini and other interfaces

Tuesday, 20 September 2011 14:30 (20 minutes)

Primary author: Dr KELSEY, Michael (SLAC National Accelerator Laboratory)

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

Session Classification: Parallel 3A (Hadronic): Improving Interfaces

Contribution ID: **101**

Type: **not specified**

Update of pre-compound/de-excitation/photon evaporation

Tuesday, 20 September 2011 14:50 (20 minutes)

Primary author: Prof. IVANTCHENKO, Vladimir (CERN)

Presenter: Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 3A (Hadronic): Improving Interfaces

Contribution ID: **102**

Type: **not specified**

Problems of hadronic interfaces

Tuesday, 20 September 2011 15:10 (20 minutes)

Primary author: Dr WRIGHT, Dennis (SLAC)

Presenter: Dr WRIGHT, Dennis (SLAC)

Session Classification: Parallel 3A (Hadronic): Improving Interfaces

Contribution ID: **103**

Type: **not specified**

System Testing Procedures

Monday, 19 September 2011 11:35 (20 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary 2: Collaboration Tools and Duties

Contribution ID: **104**

Type: **not specified**

Webpage Management

Monday, 19 September 2011 12:10 (15 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary 2: Collaboration Tools and Duties

Contribution ID: **105**

Type: **not specified**

Welcome

Monday, 19 September 2011 09:00 (10 minutes)

Session Classification: Plenary 1: Opening Addresses

Contribution ID: **106**

Type: **not specified**

Meeting goals

Monday, 19 September 2011 09:10 (20 minutes)

Primary author: ASAI, Makoto (SLAC)

Presenter: ASAI, Makoto (SLAC)

Session Classification: Plenary 1: Opening Addresses

Contribution ID: **107**

Type: **not specified**

Requirements from user domains : HENP

Monday, 19 September 2011 09:30 (10 minutes)

Primary authors: Dr RIBON, Alberto (CERN); Dr DOTTI, Andrea (CERN)

Presenter: Dr RIBON, Alberto (CERN)

Session Classification: Plenary 1: Opening Addresses

Contribution ID: **108**

Type: **not specified**

Requirements from user domains : Space

Monday, 19 September 2011 09:40 (10 minutes)

Presenter: ALLISON, John

Session Classification: Plenary 1: Opening Addresses

Contribution ID: **109**

Type: **not specified**

Requirements from user domains : Medical

Monday, 19 September 2011 09:50 (10 minutes)

Primary author: PERL, Joseph (SLAC)

Presenter: PERL, Joseph (SLAC)

Session Classification: Plenary 1: Opening Addresses

Contribution ID: **110**

Type: **not specified**

Requirements from user domains : Low background experiments

Monday, 19 September 2011 10:00 (10 minutes)

Primary author: Dr WRIGHT, Dennis (SLAC)

Presenter: Dr WRIGHT, Dennis (SLAC)

Session Classification: Plenary 1: Opening Addresses

Contribution ID: 111

Type: **not specified**

Importing and Exporting Tesselated Volumes

Wednesday, 21 September 2011 15:10 (20 minutes)

Presenter: Dr GRAF, Norman (SLAC)

Session Classification: Parallel 6A: Geometry Working Session

Contribution ID: 112

Type: **not specified**

Parallel layered mass geometry development status

Wednesday, 21 September 2011 15:30 (20 minutes)

Presenter: Dr ASAI, Makoto (SLAC)

Session Classification: Parallel 6A: Geometry Working Session

Contribution ID: **113**

Type: **not specified**

Forced interactions/navigation issues

Wednesday, 21 September 2011 15:50 (20 minutes)

Presenter: VERDERI, Marc (LLR, Ecole polytechnique)

Session Classification: Parallel 6A: Geometry Working Session

Contribution ID: **114**

Type: **not specified**

Discussion on open issues

Wednesday, 21 September 2011 16:10 (20 minutes)

Session Classification: Parallel 6A: Geometry Working Session

Contribution ID: 115

Type: **not specified**

Current status of Geant4-MT

Tuesday, 20 September 2011 14:00 (20 minutes)

Presenters: COOPERMAN, Gene; DONG, Xin (xindong@ccs.neu.edu)

Session Classification: Parallel 3B: Geant4-MT

Contribution ID: **116**

Type: **not specified**

How to convert Geant4 to Geant4-MT for next releases

Tuesday, 20 September 2011 14:20 (30 minutes)

Presenters: COOPERMAN, Gene; DONG, Xin

Session Classification: Parallel 3B: Geant4-MT

Contribution ID: **117**

Type: **not specified**

Discussion

Tuesday, 20 September 2011 14:50 (40 minutes)

Session Classification: Parallel 3B: Geant4-MT

Contribution ID: **118**

Type: **not specified**

Current Status of New N&E Examples

Monday, 19 September 2011 14:00 (20 minutes)

Presenter: HRIVNACOVA, Ivana (IN2P3/IPN Orsay)

Session Classification: Parallel 1B: New Novice & Extended Examples

Contribution ID: **119**

Type: **not specified**

Discussion - Finalizing Novice Examples

Monday, 19 September 2011 14:20 (20 minutes)

Presenters: HRIVNACOVA, Ivana (IN2P3/IPN Orsay); Dr GUMPLINGER, Peter (TRIUMF)

Session Classification: Parallel 1B: New Novice & Extended Examples

Contribution ID: 120

Type: **not specified**

Discussion - Planning Work On Extended Examples

Monday, 19 September 2011 14:40 (20 minutes)

Presenters: HRIVNACOVA, Ivana (IN2P3/IPN Orsay); Dr GUMPLINGER, Peter (TRIUMF)

Session Classification: Parallel 1B: New Novice & Extended Examples

Contribution ID: **121**

Type: **not specified**

AOB

Monday, 19 September 2011 15:00 (20 minutes)

Session Classification: Parallel 1B: New Novice & Extended Examples

Contribution ID: 122

Type: **not specified**

Example of a biasing technique implementation in Geant4

Wednesday, 21 September 2011 15:30 (15 minutes)

Presenter: EL BITAR, Ziad (Ires & Berkeley)

Session Classification: Parallel 6B: Biasing options

Contribution ID: **123**

Type: **not specified**

Session Introduction

Wednesday, 21 September 2011 15:10 (5 minutes)

Presenter: VERDERI, Marc (LLR, Ecole polytechnique)

Session Classification: Parallel 6B: Biasing options

Contribution ID: 124

Type: **not specified**

Integer Z and A

Tuesday, 20 September 2011 14:00 (10 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Parallel 3A (Hadronic): Improving Interfaces

Contribution ID: 125

Type: **not specified**

Developments for NeutronHP

Monday, 19 September 2011 17:20 (7 minutes)

Primary author: Dr PEDRO, Arce (CIEMAT)

Presenter: Dr PEDRO, Arce (CIEMAT)

Session Classification: Parallel 2A (Hadronic): Development Issues

Contribution ID: **126**

Type: **not specified**

Discussion

Wednesday, 21 September 2011 16:10 (20 minutes)

Session Classification: Parallel 6B: Biasing options

Contribution ID: 127

Type: **not specified**

Status of Forced Interaction

Wednesday, 21 September 2011 16:00 (10 minutes)

Presenter: VERDERI, Marc (LLR, Ecole polytechnique)

Session Classification: Parallel 6B: Biasing options