

24th Geant4 Collaboration Meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

Status of VecGeom navigator integration

Friday 27 September 2019 09:00 (20 minutes)

Presenter: WENZEL, Sandro Christian (CERN)

Session Classification: Parallel 8B - Geometry Working Session

Contribution ID: 2

Type: **not specified**

Interpolation for field integration, accuracy and benchmark

Friday 27 September 2019 09:20 (20 minutes)

Presenter: SOROKIN, Dmitry (Moscow Institute of Physics and Technology)

Session Classification: Parallel 8B - Geometry Working Session

Contribution ID: 3

Type: **not specified**

Accuracy of boundary crossing in field

Friday 27 September 2019 09:40 (10 minutes)

Presenter: APOSTOLAKIS, John (CERN)

Session Classification: Parallel 8B - Geometry Working Session

Contribution ID: 4

Type: **not specified**

Status of separate Transportation for charged and neutral particles

Friday 27 September 2019 09:50 (10 minutes)

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

Session Classification: Parallel 8B - Geometry Working Session

Contribution ID: 5

Type: **not specified**

Open issues & discussion

Friday 27 September 2019 10:00 (30 minutes)

- Hook for external sub-navigation
- Handling of looping particles
- Open problem reports

Session Classification: Parallel 8B - Geometry Working Session

Contribution ID: 6

Type: **not specified**

Status of task level parallelism

Wednesday 25 September 2019 11:00 (20 minutes)

Presenter: MADSEN, Jonathan (Lawrence Berkeley National Laboratory)

Session Classification: Plenary 5 - Kernel, GUI/Vis, analysis, examples updates I

Contribution ID: 7

Type: **not specified**

Status of event biasing & fast simulation

Wednesday 25 September 2019 11:20 (20 minutes)

Presenter: ZABOROWSKA, Anna (CERN)

Session Classification: Plenary 5 - Kernel, GUI/Vis, analysis, examples updates I

Contribution ID: 8

Type: **not specified**

Review of Production Thresholds

Wednesday 25 September 2019 11:40 (20 minutes)

Presenter: VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 5 - Kernel, GUI/Vis, analysis, examples updates I

Contribution ID: 9

Type: **not specified**

Geometry updates

Wednesday 25 September 2019 12:00 (20 minutes)

Presenter: COSMO, Gabriele (CERN)

Session Classification: Plenary 5 - Kernel, GUI/Vis, analysis, examples updates I

Contribution ID: **10**

Type: **not specified**

Discussion

Wednesday 25 September 2019 12:20 (10 minutes)

Session Classification: Plenary 5 - Kernel, GUI/Vis, analysis, examples updates I

Contribution ID: **11**

Type: **not specified**

Geant4 CPU and Memory Profiling and Benchmark - Status Report

Thursday 26 September 2019 15:00 (15 minutes)

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

Session Classification: Parallel 6B - Computing Performance

Contribution ID: **12**

Type: **not specified**

Geant4 profiling using the KISTI-5 supercomputer

Thursday 26 September 2019 15:15 (15 minutes)

Presenter: CHO, Kihyeon

Session Classification: Parallel 6B - Computing Performance

Contribution ID: **13**

Type: **not specified**

Welcome

Monday 23 September 2019 09:00 (10 minutes)

Presenter: BOEHNLEIN, Amber (Jefferson Lab)

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: **14**

Type: **not specified**

Opening remarks

Monday 23 September 2019 09:10 (5 minutes)

Presenters: ASAI, Makoto (SLAC National Accelerator Laboratory (US)); VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: 15

Type: **not specified**

Open and new requirements - LHC and other HEP Energy Frontier experiments

Monday 23 September 2019 09:15 (15 minutes)

Presenter: RIBON, Alberto (CERN)

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: 16

Type: **not specified**

Open and new requirements - HEP Intensity and Cosmic Frontiers experiments

Monday 23 September 2019 09:30 (15 minutes)

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

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: 17

Type: **not specified**

Open and new requirements - Nuclear Physics experiments

Monday 23 September 2019 09:45 (15 minutes)

Presenter: Dr DIEFENTHALER, Markus (Jefferson Lab)

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: **18**

Type: **not specified**

Open and new requirements - Space science and engineering

Monday 23 September 2019 10:00 (15 minutes)

Presenter: WRIGHT, Dennis Herbert

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: **19**

Type: **not specified**

Open and new requirements - Medical and bio science

Monday 23 September 2019 10:15 (15 minutes)

Presenter: RAMOS MENDOZ, José (UCSF)

Session Classification: Plenary 1 - Opening addresses / open requirements

Contribution ID: 20

Type: **not specified**

Varying Bertini Model Parameters

Tuesday 24 September 2019 14:00 (25 minutes)

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

Session Classification: Parallel 3A - Status of hadronic models and their validation, part II

Contribution ID: 21

Type: **not specified**

FTF Parameter API

Tuesday 24 September 2019 14:25 (25 minutes)

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

Session Classification: Parallel 3A - Status of hadronic models and their validation, part II

Contribution ID: 22

Type: **not specified**

Validation Using CMS Data

Tuesday 24 September 2019 14:50 (25 minutes)

Presenters: BANERJEE, Sunanda (Fermi National Accelerator Lab. (US)); Prof. IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 3A - Status of hadronic models and their validation, part II

Contribution ID: 23

Type: **not specified**

INCL++ - Recent Progress, Status and Plans

Monday 23 September 2019 16:00 (20 minutes)

Presenter: DAVID, Jean-Christophe

Session Classification: Parallel 2A - Status of hadronic models and their validation, part I

Contribution ID: 24

Type: **not specified**

The Bertini Model - Recent Progress, Status and Plans

Monday 23 September 2019 16:20 (20 minutes)

Presenter: WRIGHT, Dennis Herbert

Session Classification: Parallel 2A - Status of hadronic models and their validation, part I

Contribution ID: 25

Type: **not specified**

The FTF and QGS Models - Recent Progress, Status and Plans

Monday 23 September 2019 16:40 (30 minutes)

Presenters: UZHINSKII, Vladimir (Joint Institute for Nuclear Research (RU)); RIBON, Alberto (CERN)

Session Classification: Parallel 2A - Status of hadronic models and their validation, part I

Contribution ID: 26

Type: **not specified**

Discussion

Monday 23 September 2019 17:10 (20 minutes)

Session Classification: Parallel 2A - Status of hadronic models and their validation, part I

Contribution ID: 27

Type: **not specified**

Discussion

Tuesday 24 September 2019 15:15 (15 minutes)

Session Classification: Parallel 3A - Status of hadronic models and their validation, part II

Contribution ID: 28

Type: **not specified**

Evaluation of early radiation DNA damage in a fractal cell nucleus model using Geant4-DNA (remote)

Thursday 26 September 2019 16:00 (15 minutes)

Presenter: SAKATA, Dosatsu (University of Tsukuba (JP))

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: 29

Type: **not specified**

Status of MPEXS-DNA (remote)

Presenter: OKADA, Shogo (KEK, Japan)

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: **30**

Type: **not specified**

Current status of IRT for plasmid SSB simulations under the presence of scavengers

Thursday 26 September 2019 16:15 (15 minutes)

Presenter: RAMOS MENDEZ, Jose Asuncion

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: 31

Type: **not specified**

A proposal for a physics list for gamma radiotherapy applications

Thursday 26 September 2019 17:15 (15 minutes)

Presenter: ARCE, Pedro (CIEMAT)

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: 32

Type: **not specified**

Validation of Geant4 for Microbeam Radiation Therapy

Thursday 26 September 2019 16:45 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: 33

Type: **not specified**

Update of LightIonBraggPeak test with Li and O data

Thursday 26 September 2019 17:00 (15 minutes)

Presenter: CORTES GIRALDO, Miguel Antonio (Universidad de Sevilla (ES))

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: **34**

Type: **not specified**

G4MSBG: recent developments

Thursday 26 September 2019 16:30 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 7B - Geant4 in medicine

Contribution ID: 35

Type: **not specified**

New Geant4-DNA physics models for electrons in DNA-related material (remote)

Wednesday 25 September 2019 09:00 (15 minutes)

Presenter: BORDAGE, Marie-Claude

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: 36

Type: **not specified**

New Geant4-DNA physics models for electrons in gold (remote)

Wednesday 25 September 2019 09:15 (15 minutes)

Presenter: KYRIAKOU, Ioanna (Ioannina University)

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: 37

Type: **not specified**

Status of MPEXS-DNA

Wednesday 25 September 2019 09:30 (15 minutes)

Presenter: OKADA, Shogo (KEK, Japan)

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: 38

Type: **not specified**

Calculation of microdosimetric quantities of proton track segments with Geant4-DNA

Presenter: CORTES GIRALDO, Miguel Antonio (Universidad de Sevilla (ES))

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: 39

Type: **not specified**

Directional brem splitting

Wednesday 25 September 2019 10:00 (15 minutes)

Presenter: SAWKEY, Daren

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: 40

Type: **not specified**

Geant4-DNA for other solid state materials

Wednesday 25 September 2019 09:45 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: 41

Type: **not specified**

Evaluation of the influence of physical and chemical parameters on water radiolysis simulations under MeV electron irradiation using Geant4-DNA

Friday 27 September 2019 09:00 (15 minutes)

Presenter: SHIN, Wook Geun

Session Classification: Parallel 8A - New EM validation results

Contribution ID: 42

Type: **not specified**

Towards continuous integration testing of optical code

Friday 27 September 2019 09:15 (15 minutes)

Presenter: SAWKEY, Daren

Session Classification: Parallel 8A - New EM validation results

Contribution ID: 43

Type: **not specified**

Validation of the Geant4 radioactive decay and emission of Auger electrons

Friday 27 September 2019 09:30 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 8A - New EM validation results

Contribution ID: 44

Type: **not specified**

5D gamma conversion model: high energy tests

Friday 27 September 2019 09:45 (15 minutes)

Presenter: BERNARD, Denis Robert Leon (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 8A - New EM validation results

Contribution ID: 45

Type: **not specified**

Status of Electromagnetic Physics

Tuesday 24 September 2019 09:00 (40 minutes)

Progress in both low and high energy electromagnetic physics will be presented.

Presenter: IVANTCHENKO, Vladimir (CERN)

Session Classification: Plenary 3 - Physics updates I

Contribution ID: 46

Type: **not specified**

High Energy Hadronic Physics

Tuesday 24 September 2019 09:40 (20 minutes)

A discussion of last year's progress in high energy hadronic physics

Presenter: RIBON, Alberto (CERN)

Session Classification: Plenary 3 - Physics updates I

Contribution ID: 47

Type: **not specified**

Low Energy Hadronic Physics

Tuesday 24 September 2019 10:00 (20 minutes)

A discussion of last year's progress in low energy hadronic physics

Presenter: WRIGHT, Dennis Herbert

Session Classification: Plenary 3 - Physics updates I

Contribution ID: **48**

Type: **not specified**

Discussion

Tuesday 24 September 2019 10:20 (10 minutes)

Session Classification: Plenary 3 - Physics updates I

Contribution ID: 49

Type: **not specified**

Status of ParticleHP models

Thursday 26 September 2019 14:00 (20 minutes)

A discussion of last year's progress in the the high precision particle models

Presenter: MENDOZA CEMBRANOS, Emilio (Centro de Investigaciones Energéticas Medioambientales y Tecno)

Session Classification: Parallel 6A - Nuclear physics

Contribution ID: 50

Type: **not specified**

Radioactive Decay status

Thursday 26 September 2019 14:20 (20 minutes)

A report on last year's progress in the radioactive decay process, models and database

Presenter: DESORGHER, Laurent

Session Classification: Parallel 6A - Nuclear physics

Contribution ID: 51

Type: **not specified**

Precompound and Deexcitation models status and plans

Thursday 26 September 2019 14:40 (20 minutes)

Progress in the precompound and deexcitation models will be discussed

Presenter: IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 6A - Nuclear physics

Contribution ID: 52

Type: **not specified**

Discussion

Thursday 26 September 2019 15:00 (30 minutes)

Session Classification: Parallel 6A - Nuclear physics

Contribution ID: 53

Type: **not specified**

LHCb

Thursday 26 September 2019 14:00 (15 minutes)

Presenter: CORTI, Gloria (CERN)

Session Classification: Parallel 6B - Computing Performance

Contribution ID: 54

Type: **not specified**

CMS

Thursday 26 September 2019 14:15 (15 minutes)

Presenters: ELVIRA, Victor Daniel (Fermi National Accelerator Lab. (US)); IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 6B - Computing Performance

Contribution ID: 55

Type: **not specified**

ALICE

Thursday 26 September 2019 14:30 (15 minutes)

Presenter: HRIVNACOVA, Ivana (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 6B - Computing Performance

Contribution ID: 56

Type: **not specified**

ATLAS

Thursday 26 September 2019 14:45 (15 minutes)

Presenter: APOSTOLAKIS, John (CERN)

Session Classification: Parallel 6B - Computing Performance

Contribution ID: 57

Type: **not specified**

Extended examples: Progress with work plan items

Tuesday 24 September 2019 14:00 (15 minutes)

Presenter: HRIVNACOVA, Ivana (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: 58

Type: **not specified**

Advanced examples: progress

Tuesday 24 September 2019 14:15 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: 59

Type: **not specified**

Example dna/microprox

Tuesday 24 September 2019 14:30 (5 minutes)

Presenter: INCERTI, Sebastien (CNRS/IN2P3)

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: **60**

Type: **not specified**

Example dna/chem5

Tuesday 24 September 2019 14:35 (5 minutes)

Presenter: RAMOS MENDEZ, Jose (University of California San Francisco)

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: **61**

Type: **not specified**

Example dna/dnadamage1

Tuesday 24 September 2019 14:40 (5 minutes)

Presenter: HOANG, Tran Ngoc (Ton Duc Thang University)

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: **62**

Type: **not specified**

new MPI/exMPI04

Tuesday 24 September 2019 15:00 (5 minutes)

Presenter: HRIVNACOVA, Ivana (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: 63

Type: **not specified**

Proposal for a new medical extended example

Tuesday 24 September 2019 15:05 (5 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: **64**

Type: **not specified**

Hadrontherapy: status and validation

Tuesday 24 September 2019 15:10 (15 minutes)

Presenter: CIRRONE, Pablo (Unknown)

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: 65

Type: **not specified**

Discussion

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: **66**

Type: **not specified**

Geant4 Task Force for R&Ds

Thursday 26 September 2019 09:00 (5 minutes)

Presenters: MADSEN, Jonathan (Lawrence Berkeley National Laboratory); POKORSKI, Witold (CERN)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: 67

Type: **not specified**

Geant Exascale pilot

Thursday 26 September 2019 09:05 (15 minutes)

Presenter: MADSEN, Jonathan (Lawrence Berkeley National Laboratory)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: **68**

Type: **not specified**

Making Geant4 stepping stateless

Thursday 26 September 2019 09:20 (15 minutes)

Presenters: GHEATA, Andrei (CERN); POKORSKI, Witold (CERN)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: **69**

Type: **not specified**

Geant4 Tasking model

Thursday 26 September 2019 09:35 (15 minutes)

Presenter: MADSEN, Jonathan (Lawrence Berkeley National Laboratory)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: 70

Type: **not specified**

VectorFlow framework

Thursday 26 September 2019 09:50 (15 minutes)

Presenter: GHEATA, Andrei (CERN)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: 71

Type: **not specified**

Machine Learning-based fast simulation framework

Thursday 26 September 2019 10:05 (15 minutes)

Presenter: IFRIM, Ioana (CERN)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: 72

Type: **not specified**

Discussion

Thursday 26 September 2019 10:20 (10 minutes)

Session Classification: Parallel 5B - Medium- and longer-term R&Ds

Contribution ID: 73

Type: **not specified**

Git/GitLab/GitHub Update

Monday 23 September 2019 11:35 (20 minutes)

Review of first year of Git and GitLab for developing Geant4.

Presenter: MORGAN, Benjamin (University of Warwick (GB))

Session Classification: Plenary 2 - Collaboration tools

Contribution ID: 74

Type: **not specified**

Geant4 CMake/Buildsystem Updates

Monday 23 September 2019 11:15 (20 minutes)

Review of updates and developments to the CMake build system.

Presenter: MORGAN, Benjamin (University of Warwick (GB))

Session Classification: Plenary 2 - Collaboration tools

Contribution ID: 75

Type: **not specified**

Migration of User Forum to Discourse

Monday 23 September 2019 11:00 (15 minutes)

Presenter: WRIGHT, Dennis Herbert

Session Classification: Plenary 2 - Collaboration tools

Contribution ID: 76

Type: **not specified**

Update on GFlash revision (remote or local speaker)

Monday 23 September 2019 16:10 (30 minutes)

Presenter: ZABOROWSKA, Anna (CERN)

Session Classification: Parallel 2B - Progress on biasing and fast simulation

Contribution ID: 77

Type: **not specified**

Introduction / general news

Monday 23 September 2019 16:00 (10 minutes)

Presenter: VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 2B - Progress on biasing and fast simulation

Contribution ID: 78

Type: **not specified**

From Woodcock viewpoint to weight calculation for occurrence biasing of charged particles

Monday 23 September 2019 16:40 (30 minutes)

Presenter: VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 2B - Progress on biasing and fast simulation

Contribution ID: 79

Type: **not specified**

Discussion

Monday 23 September 2019 17:10 (20 minutes)

Session Classification: Parallel 2B - Progress on biasing and fast simulation

Contribution ID: **80**

Type: **not specified**

Report on Parallel 1A - Physics lists and validation tools

Friday 27 September 2019 11:00 (8 minutes)

Presenters: RIBON, Alberto (CERN); FOLGER, Gunter (CERN)

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: **81**

Type: **not specified**

Report on Parallel 1B - GUI / Visualization

Friday 27 September 2019 11:08 (8 minutes)

Presenters: GARNIER, Laurent; ALLISON, John; PERL, Joseph

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: 82

Type: **not specified**

Report on Parallel 2B - Biasing and fast simulation

Friday 27 September 2019 11:16 (8 minutes)

Presenters: VERDERI, Marc (Centre National de la Recherche Scientifique (FR)); HOWARD, Alexander (Imperial College (GB))

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: 83

Type: **not specified**

Report on Parallel 3B - Basic, extended and advanced examples

Friday 27 September 2019 11:24 (8 minutes)

Presenters: HRIVNACOVA, Ivana (Centre National de la Recherche Scientifique (FR)); GUATELLI, Susanna

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: **84**

Type: **not specified**

Report on Parallel 4B - Near-term kernel developments

Friday 27 September 2019 11:32 (8 minutes)

Presenters: ASAI, Makoto (SLAC National Accelerator Laboratory (US)); VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: 85

Type: **not specified**

Report on Parallel 5A - Documentation

Friday 27 September 2019 11:40 (8 minutes)

Presenters: HOWARD, Alexander (Imperial College (GB)); SAWKEY, Daren

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: **86**

Type: **not specified**

Report on Parallel 5B - Medium- and longer-term R&Ds

Friday 27 September 2019 14:00 (8 minutes)

Presenters: POKORSKI, Witold (CERN); MADSEN, Jonathan (Lawrence Berkeley National Laboratory)

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: 87

Type: **not specified**

Report on Parallel 6B - Computing performance

Friday 27 September 2019 14:08 (8 minutes)

Presenters: JUN, Soon Yung (Fermi National Accelerator Lab. (US)); FOLGER, Gunter (CERN)

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: **88**

Type: **not specified**

Report on Parallel 2A, 3A, 6A, 7A - Hadronic physics

Friday 27 September 2019 11:48 (28 minutes)

Presenters: GENSER, Krzysztof (Fermi National Accelerator Laboratory (US)); RIBON, Alberto (CERN); WRIGHT, Dennis Herbert; FOLGER, Gunter (CERN)

Session Classification: Plenary 7 - Summary of parallel sessions

Contribution ID: 89

Type: **not specified**

Report on Parallel 8B - Geometry

Friday 27 September 2019 14:16 (8 minutes)

Presenters: COSMO, Gabriele (CERN); APOSTOLAKIS, John (CERN)

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: **90**

Type: **not specified**

Report on Parallel 7B - Geant4 in medicine

Friday 27 September 2019 14:24 (8 minutes)

Presenters: GUATELLI, Susanna; FADDEGON, Bruce Alan

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: **91**

Type: **not specified**

Report on Parallel 4A, 8A - EM physics

Friday 27 September 2019 14:32 (15 minutes)

Presenters: IVANTCHENKO, Vladimir (CERN); GUATELLI, Susanna; INCERTI, Sebastien (CNRS/IN2P3); SAWKEY, Daren

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: **92**

Type: **not specified**

Version 10.6 release schedule

Friday 27 September 2019 14:47 (10 minutes)

Presenter: COSMO, Gabriele (CERN)

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: 93

Type: **not specified**

Next collaboration meeting

Friday 27 September 2019 14:57 (10 minutes)

Presenter: GARNIER, Laurent

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: 94

Type: **not specified**

Closing remarks

Friday 27 September 2019 15:07 (10 minutes)

Presenters: ASAI, Makoto (SLAC National Accelerator Laboratory (US)); VERDERI, Marc (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 8 - Summary of parallel sessions / closing session

Contribution ID: 95

Type: **not specified**

Visualization and User Interface

Thursday 26 September 2019 12:00 (30 minutes)

Presenter: ALLISON, John

Session Classification: Plenary 6 - Kernel, GUI/Vis, analysis, examples updates II

Contribution ID: **96**

Type: **not specified**

G4Tools

Thursday 26 September 2019 11:15 (15 minutes)

Presenter: BARRAND, Guy (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 6 - Kernel, GUI/Vis, analysis, examples updates II

Contribution ID: 97

Type: **not specified**

Analysis

Thursday 26 September 2019 11:00 (15 minutes)

Presenter: HRIVNACOVA, Ivana (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 6 - Kernel, GUI/Vis, analysis, examples updates II

Contribution ID: **98**

Type: **not specified**

Extended examples

Thursday 26 September 2019 11:30 (15 minutes)

Presenter: HRIVNACOVA, Ivana (Centre National de la Recherche Scientifique (FR))

Session Classification: Plenary 6 - Kernel, GUI/Vis, analysis, examples updates II

Contribution ID: 99

Type: **not specified**

Advanced examples

Thursday 26 September 2019 11:45 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Plenary 6 - Kernel, GUI/Vis, analysis, examples updates II

Contribution ID: **100**

Type: **not specified**

Sub-event parallelism

Wednesday 25 September 2019 09:00 (15 minutes)

Session Classification: Parallel 4B - Near-term kernel developments

Contribution ID: **101**

Type: **not specified**

Unified tracking mechanism for exotic particles (ions, muonic atoms, radicals, hyper-nuclear, phonon, e/h)

Wednesday 25 September 2019 09:15 (15 minutes)

Session Classification: Parallel 4B - Near-term kernel developments

Contribution ID: **102**

Type: **not specified**

Revisit / retreat production thresholds and physics process framework

Wednesday 25 September 2019 09:30 (15 minutes)

Session Classification: Parallel 4B - Near-term kernel developments

Contribution ID: **103**

Type: **not specified**

Refactoring transportation

Wednesday 25 September 2019 09:45 (15 minutes)

Session Classification: Parallel 4B - Near-term kernel developments

Contribution ID: **104**

Type: **not specified**

Extension of command-based scorer

Wednesday 25 September 2019 10:00 (15 minutes)

Session Classification: Parallel 4B - Near-term kernel developments

Contribution ID: **105**

Type: **not specified**

Calculation of microdosimetric quantities of proton track segments with Geant4-DNA

Tuesday 24 September 2019 14:45 (15 minutes)

Presenter: CORTES GIRALDO, Miguel Antonio (Universidad de Sevilla (ES))

Session Classification: Parallel 3B - Basic, Extended and Advanced Examples

Contribution ID: **106**

Type: **not specified**

X-ray fluorescence with ANSTO libraries

Wednesday 25 September 2019 10:15 (15 minutes)

Presenter: GUATELLI, Susanna

Session Classification: Parallel 4A - New EM models and tools

Contribution ID: **107**

Type: **not specified**

Documentation Update and Discussion

Monday 23 September 2019 11:55 (35 minutes)

Presenter: HOWARD, Alexander (Imperial College (GB))

Session Classification: Plenary 2 - Collaboration tools

Contribution ID: **108**

Type: **not specified**

Changes to Physics Lists

Monday 23 September 2019 14:00 (15 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Parallel 1A - Physics lists and validation tools

Contribution ID: **109**

Type: **not specified**

EM infrastructure and Physics Lists update

Monday 23 September 2019 14:15 (15 minutes)

Presenters: BAGULIA, Aleksandr (Russian Academy of Sciences (RU)); IVANTCHENKO, Vladimir (CERN)

Session Classification: Parallel 1A - Physics lists and validation tools

Contribution ID: **110**

Type: **not specified**

Discussion

Monday 23 September 2019 15:00 (20 minutes)

Session Classification: Parallel 1A - Physics lists and validation tools

Contribution ID: **111**

Type: **not specified**

Status of physics lists and geant-val

Tuesday 24 September 2019 11:00 (15 minutes)

Presenter: FOLGER, Gunter (CERN)

Session Classification: Plenary 4 - Physics updates II

Contribution ID: **112**

Type: **not specified**

Discussion

Tuesday 24 September 2019 11:35 (40 minutes)

Session Classification: Plenary 4 - Physics updates II

Contribution ID: **113**

Type: **not specified**

Updates to DoSSiER

Monday 23 September 2019 14:45 (15 minutes)

Presenter: WENZEL, Hans-Joachim (Fermi National Accelerator Lab. (US))

Session Classification: Parallel 1A - Physics lists and validation tools

Contribution ID: **114**

Type: **not specified**

geant-val

Monday 23 September 2019 14:30 (15 minutes)

Session Classification: Parallel 1A - Physics lists and validation tools

Contribution ID: **115**

Type: **not specified**

Varying Model Parameters

Tuesday 24 September 2019 11:15 (20 minutes)

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

Session Classification: Plenary 4 - Physics updates II

Contribution ID: **116**

Type: **not specified**

Developments in 10.5 and for 10.6

Monday 23 September 2019 14:00 (20 minutes)

Presenter: ALLISON, John

Session Classification: Parallel 1B - Visualization updates

Contribution ID: **117**

Type: **not specified**

Vis mini-workshop 2019

Monday 23 September 2019 14:20 (20 minutes)

Presenter: ALLISON, John

Session Classification: Parallel 1B - Visualization updates

Contribution ID: **118**

Type: **not specified**

G4Tools

Monday 23 September 2019 14:40 (20 minutes)

Presenter: BARRAND, Guy (Centre National de la Recherche Scientifique (FR))

Session Classification: Parallel 1B - Visualization updates

Contribution ID: **119**

Type: **not specified**

Qt and OpenGL updates

Monday 23 September 2019 15:00 (20 minutes)

Presenter: GARNIER, Laurent

Session Classification: Parallel 1B - Visualization updates

Contribution ID: **120**

Type: **not specified**

Discussion

Monday 23 September 2019 15:20 (10 minutes)

Session Classification: Parallel 1B - Visualization updates

Contribution ID: **121**

Type: **not specified**

Discussion

Friday 27 September 2019 10:00 (30 minutes)

Session Classification: Parallel 8A - New EM validation results

Contribution ID: **122**

Type: **not specified**

Update on Geant4 and timemory

Wednesday 25 September 2019 10:15 (15 minutes)

Presenter: Dr MADSEN, Jonathan (Lawrence Berkeley National Laboratory)

Session Classification: Parallel 4B - Near-term kernel developments

Contribution ID: **123**

Type: **not specified**

Introduction

Thursday 26 September 2019 09:00 (20 minutes)

Introduction to documentation working session/discussion

Presenter: HOWARD, Alexander (Imperial College (GB))

Session Classification: Parallel 5A - Documentation working session

Contribution ID: **124**

Type: **not specified**

Discussion

Thursday 26 September 2019 09:30 (1 hour)

Session Classification: Parallel 5A - Documentation working session

Contribution ID: **125**

Type: **not specified**

Videos

Thursday 26 September 2019 09:20 (10 minutes)

update, plans, contributions....

Presenter: GARNIER, Laurent

Session Classification: Parallel 5A - Documentation working session

Contribution ID: **126**

Type: **not specified**

Future plans for ParticleHP

Thursday 26 September 2019 16:00 (40 minutes)

Presenter: MENDOZA CEMBRANOS, Emilio (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)

Session Classification: Parallel 7A - Technical aspects of hadronic physics and remaining topics

Contribution ID: **127**

Type: **not specified**

Discussion

Thursday 26 September 2019 16:40 (50 minutes)

Session Classification: Parallel 7A - Technical aspects of hadronic physics and remaining topics