

# **Geant4 Tutorial**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Geometry - Part 2

*Tuesday, February 16, 2010 9:00 AM (1h 30m)*

Lectures and exercises

**Primary author:** POKORSKI, Witold (CERN)

**Presenters:** Dr COSMO, Gabriele (CERN); POKORSKI, Witold (CERN)

**Session Classification:** Building a detector - Part 2

Contribution ID: 1

Type: **not specified**

## **Geometry - Part 3: Advanced Features**

*Tuesday, February 16, 2010 10:45 AM (1 hour)*

**Primary author:** Dr COSMO, Gabriele (CERN)

**Presenter:** Dr COSMO, Gabriele (CERN)

**Session Classification:** Building a detector - Part 2

Contribution ID: 2

Type: **not specified**

## Electromagnetic Fields

*Tuesday, February 16, 2010 11:45 AM (30 minutes)*

Lecture and exercise

**Primary author:** Dr APOSTOLAKIS, John (CERN)

**Presenter:** Dr APOSTOLAKIS, John (CERN)

**Session Classification:** Building a detector - Part 2

Contribution ID: 3

Type: **not specified**

## Materials and Geometry

*Monday, February 15, 2010 4:30 PM (1h 30m)*

Lectures and exercises

**Primary author:** Dr COSMO, Gabriele (CERN)

**Presenter:** Dr COSMO, Gabriele (CERN)

**Session Classification:** Building a detector - Part 1

Contribution ID: 4

Type: **not specified**

## Introduction to Geant4

*Monday, February 15, 2010 2:30 PM (30 minutes)*

Lecture

**Presenter:** Dr APOSTOLAKIS, John (CERN)

**Session Classification:** Introduction and First Steps

Contribution ID: 5

Type: **not specified**

## **First steps hands-on:**

*Monday, February 15, 2010 3:00 PM (30 minutes)*

Exercises

**Primary author:** DOTTI, Andrea (CERN)

**Co-author:** FOLGER, Gunter (CERN)

**Presenter:** FOLGER, Gunter (CERN)

**Session Classification:** Introduction and First Steps

Contribution ID: 6

Type: **not specified**

## Particles and Processes

*Wednesday, February 17, 2010 2:00 PM (1h 30m)*

Lecture and exercises

**Presenter:** Dr SCHAELICKE, Andreas (DESY Zeuthen)

**Session Classification:** Particles and Processes



Contribution ID: 7

Type: **not specified**

## Neutrons

*Friday, February 19, 2010 10:20 AM (20 minutes)*

Lecture and exercises

**Presenter:** Prof. IVANTCHENKO, Vladimir (CERN, ESA)

**Session Classification:** Hadronic Physics

Contribution ID: 8

Type: **not specified**

# Hadronic Physics I

*Thursday, February 18, 2010 2:00 PM (1h 30m)*

**Presenter:** FOLGER, Gunter (CERN)

**Session Classification:** Hadronic Physics and Physics Lists

Contribution ID: 9

Type: **not specified**

## Hadronic Physics II

*Friday, February 19, 2010 9:20 AM (1 hour)*

**Session Classification:** Hadronic Physics

Contribution ID: **10**

Type: **not specified**

## Basics of physics list

Lecture and exercises

**Presenter:** Dr RIBON, Alberto (CERN)

Contribution ID: 11

Type: **not specified**

# Optical Physics

Lecture

**Presenter:** Dr SCHAELICKE, Andreas (DESY Zeuthen)

Contribution ID: 12

Type: **not specified**

## Basics of Physics list

Lecture and exercises

**Presenter:** Dr RIBON, Alberto (CERN)

Contribution ID: 13

Type: **not specified**

## Basics of Physics list

*Thursday, February 18, 2010 4:00 PM (20 minutes)*

**Presenter:** Dr RIBON, Alberto (CERN)

**Session Classification:** Hadronic Physics and Physics Lists

Contribution ID: 14

Type: **not specified**

## Optical Physics

*Thursday, February 18, 2010 5:00 PM (1 hour)*

**Presenter:** Dr SCHAELOCKE, Andreas (DESY Zeuthen)

**Session Classification:** Hadronic Physics and Physics Lists



Contribution ID: 15

Type: **not specified**

## **Sensitive Detector**

*Wednesday, February 17, 2010 11:00 AM (40 minutes)*

**Primary author:** DOTTI, Andrea (CERN)

**Presenter:** DOTTI, Andrea (CERN)

**Session Classification:** Getting information from Geant4 objects and using it

Contribution ID: 16

Type: **not specified**

## Internal Objects and User Actions

*Wednesday, February 17, 2010 11:40 AM (1 hour)*

**Primary author:** FOLGER, Gunter (CERN)

**Co-author:** DOTTI, Andrea (CERN)

**Presenter:** FOLGER, Gunter (CERN)

**Session Classification:** Getting information from Geant4 objects and using it

Contribution ID: 17

Type: **not specified**

## Hits

*Wednesday, February 17, 2010 4:00 PM (20 minutes)*

**Primary author:** DOTTI, Andrea (CERN)

**Presenter:** DOTTI, Andrea (CERN)

**Session Classification:** Saving information

Contribution ID: **18**

Type: **not specified**

## **Interface to analysis toolkits**

*Wednesday, February 17, 2010 4:20 PM (20 minutes)*

**Primary author:** DOTTI, Andrea (CERN)

**Presenter:** DOTTI, Andrea (CERN)

**Session Classification:** Saving information

Contribution ID: **19**

Type: **not specified**

## Welcome

*Monday, February 15, 2010 2:00 PM (10 minutes)*

**Presenter:** Dr MATO, Pere (CERN)

**Session Classification:** Welcome and Local Information

Contribution ID: 20

Type: **not specified**

## Local Information

*Monday, February 15, 2010 2:10 PM (20 minutes)*

**Presenter:** Dr COSMO, Gabriele (CERN)

**Session Classification:** Welcome and Local Information

Contribution ID: 21

Type: **not specified**

## User Interface and Messengers

*Tuesday, February 16, 2010 4:00 PM (1 hour)*

**Primary author:** Prof. IVANTCHENKO, Vladimir (CERN, ESA)

**Presenter:** Prof. IVANTCHENKO, Vladimir (CERN, ESA)

**Session Classification:** UI commands and messengers

Contribution ID: 22

Type: **not specified**

## Primary particles and their generation

*Tuesday, February 16, 2010 2:00 PM (1h 30m)*

**Primary author:** Mrs ELLES, Sabine (LAPP)

**Presenter:** Mrs ELLES, Sabine (LAPP)

**Session Classification:** Primary Particles



Contribution ID: 23

Type: **not specified**

## **Electromagnetic Physics - Part 1**

*Wednesday, February 17, 2010 9:00 AM (30 minutes)*

**Presenters:** Dr SCHAELOCKE, Andreas (DESY Zeuthen); Prof. IVANTCHENKO, Vladimir (CERN, ESA)

**Session Classification:** Electromagnetic Physics - Part 1

Contribution ID: 24

Type: **not specified**

## Scoring and stacking

*Thursday, February 18, 2010 11:00 AM (1h 30m)*

**Primary author:** ASAI, Makoto (SLAC)

**Presenter:** ASAI, Makoto (SLAC)

**Session Classification:** Getting Information from Geant4 - Part 2

Contribution ID: 25

Type: **not specified**

## Electromagnetic Physics - Part 2

*Thursday, February 18, 2010 9:00 AM (1h 30m)*

**Presenters:** Dr SCHAELICKE, Andreas (DESY Zeuthen); Prof. IVANTCHENKO, Vladimir (CERN, ESA)

**Session Classification:** EM Physics and Optics

Contribution ID: 26

Type: **not specified**

## Hadronic Modeling - CHIPS

*Thursday, February 18, 2010 6:00 PM (30 minutes)*

**Primary author:** Dr KOSOV, Mikhail (CERN, ITEP(MOSCOW))

**Presenter:** Dr KOSOV, Mikhail (CERN, ITEP(MOSCOW))

**Session Classification:** Hadronic Physics and Physics Lists

Contribution ID: 27

Type: **not specified**

## Em physics for ions

*Friday, February 19, 2010 9:00 AM (20 minutes)*

**Session Classification:** Hadronic Physics

Contribution ID: 28

Type: **not specified**

## Digits

*Friday, February 19, 2010 11:00 AM (10 minutes)*

**Session Classification:** Further topics and discussion

Contribution ID: 29

Type: **not specified**

## **Fast Simulation**

*Friday, February 19, 2010 11:10 AM (20 minutes)*

**Session Classification:** Further topics and discussion