MarieCurie / Alliance Training Event ”Geant4 detector simulation and ROOT data analysis” (for Terascale Alliance members)

Report of Contributions

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

Welcome and organizational issues

Thursday, 4 March 2010 09:00 (30 minutes)

Presenters: KLANNER, Robert (Hamburg University); SCHOERNER-SADENIUS, Thomas (DESY)

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

Lecture and tutorial: Basic fitting (1)

Thursday, 4 March 2010 09:30 (1 hour)

Linear regression, chi-squared, errors, correlations - and all that!

Presenters: FLUCKE, Gero (DESY); BEHNKE, Olaf (DESY)

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

Lecture and tutorial: Basic fitting (2)

Thursday, 4 March 2010 10:45 (1h 15m)

Presenters: FLUCKE, Gero (DESY); BEHNKE, Olaf (DESY)

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

Lecture: Monte Carlo method

Thursday, 4 March 2010 12:00 (1 hour)

Random numbers, creating distributions, integration, simple examples.

Presenters: KNUTSSON, Albert (DESY); SCHOERNER-SADENIUS, Thomas (DESY)

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

Lecture: Physics of the beam telescope

Thursday, 4 March 2010 14:00 (1 hour)

Presenter: ROHE, Tilman (PSI)

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

Lecture and tutorial: Introduction to and first experience with Geant4

Thursday, 4 March 2010 15:00 (1h 10m)

Presenters: Dr DOTTI, Andrea Dotti (CERN); Dr SCHAELICKE, Andreas (DESY); Dr FOLGER, Gunter (CERN); Dr APOSTOLAKIS, John (CERN); Dr IVANCHENKO, Vladimir (CERN, ESA)

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

Lecture and tutorial: Geometry, Materials, and Particle Source

Thursday, 4 March 2010 16:25 (1h 35m)

Presenter: Dr SCHAELICKE, Andreas (DESY)

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

MC-PAD Management Board Meeting

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

Lecture and tutorial: User actions and Analysis

Friday, 5 March 2010 09:00 (1h 45m)

Presenters: Dr DOTTI, Andrea Dotti (CERN); Dr FOLGER, Gunter (CERN)

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

Tutorial: Generation of the test data with Geant4

Friday, 5 March 2010 12:45 (15 minutes)

Presenter: Dr DOTTI, Andrea Dotti (CERN)

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

Tutorial on ROOT Analysis of Test Beam Data: Pedestal and Noise Determination, Cluster Finding and Position Reconstruction

Friday, 5 March 2010 14:00 (2h 30m)

Presenters: Mr FLUCKE, Gero (DESY); Dr BEHNKE, Olaf (DESY); Dr SCHOERNER-SADENIUS, Thomas (DESY)

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

Tutorial on ROOT Analysis of Test Beam Data: Cluster Charge Distributions

Friday, 5 March 2010 16:45 (1h 30m)

Presenters: Mr FLUCKE, Gero (DESY); Dr BEHNKE, Olaf (DESY); Dr SCHOERNER-SADENIUS, Thomas (DESY)

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

Tutorial on ROOT Analysis of Test Beam Data: Momentum Dependence of Position Resolution, Multiple Scattering Effects

Saturday, 6 March 2010 09:00 (1h 45m)

Presenters: Mr FLUCKE, Gero (DESY); Dr BEHNKE, Olaf (DESY); Dr SCHOERNER-SADENIUS, Thomas (DESY)

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

Tutorial on ROOT Analysis of Test Beam Data: Angular Dependence of Cluster Charge and Position Resolution

Saturday, 6 March 2010 11:00 (1 hour)

Presenters: Mr FLUCKE, Gero (DESY); Dr BEHNKE, Olaf (DESY); Dr SCHOERNER-SADENIUS, Thomas (DESY)

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

Summary of workshop

Saturday, 6 March 2010 12:00 (30 minutes)

Presenter: Dr SCHOERNER-SADENIUS, Thomas (DESY)

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

Lecture and tutorial: Particles and physics processes

Friday, 5 March 2010 11:00 (1h 45m)

Presenters: Dr FOLGER, Gunter (CERN); Dr IVANCHENKO, Vladimir (CERN, ESA)

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

Registration

Thursday, 4 March 2010 08:15 (45 minutes)