

# **FNAL Code Sprint (Spring 16)**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Status & Plans for the Project

*Monday, 14 March 2016 09:00 (45 minutes)*

**Presenter:** CARMINATI, Federico (CERN)

**Session Classification:** Morning

Contribution ID: 2

Type: **not specified**

## Infrastructure and Software Management

*Monday, 14 March 2016 09:45 (45 minutes)*

**Presenter:** SHADURA, Oksana (National Technical Univ. of Ukraine "Kyiv Polytechnic Institute)

**Session Classification:** Morning

Contribution ID: 3

Type: **not specified**

## GeantV: Framework and Scheduler

*Monday, 14 March 2016 11:00 (1 hour)*

**Presenter:** GHEATA, Andrei (CERN)

**Session Classification:** Morning

Contribution ID: 4

Type: **not specified**

## I/O Developments and Validation Database

*Monday, 14 March 2016 14:30 (1 hour)*

**Presenter:** POKORSKI, Witold (CERN)

**Session Classification:** Afternoon

Contribution ID: 5

Type: **not specified**

## Propagation in Magnetic Field

*Monday, 14 March 2016 13:30 (1 hour)*

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

**Session Classification:** Afternoon

Contribution ID: 6

Type: **not specified**

## Foundation Topics: Units, Constants, Materials, RNG

*Monday, 14 March 2016 16:00 (1 hour)*

**Session Classification:** Afternoon

Contribution ID: 7

Type: **not specified**

## Plans for the Sprint (by sub-Group)

*Monday, 14 March 2016 17:00 (1 hour)*

**Session Classification:** Afternoon



Contribution ID: 8

Type: **not specified**

## **Performance Tuning and Monitoring using Genetic Optimization Techniques**

*Tuesday, 15 March 2016 09:45 (45 minutes)*

**Presenter:** SHADURA, Oksana (National Technical Univ. of Ukraine "Kyiv Polytechnic Institute)

**Session Classification:** Morning

Contribution ID: 9

Type: **not specified**

## VecCore : Status and Integration Plan

*Tuesday, 15 March 2016 11:00 (1 hour)*

**Presenter:** AMADIO, Guilherme (UNESP - Universidade Estadual Paulista (BR))

**Session Classification:** Morning

Contribution ID: **11**

Type: **not specified**

## **VecGeom: Xeon Phi Offload Backend and Performance**

*Wednesday, 16 March 2016 09:00 (1 hour)*

**Presenter:** DE PAULA BIANCHINI, Calebe (UNESP - Universidade Estadual Paulista (BR))

**Session Classification:** Morning

Contribution ID: **12**

Type: **not specified**

## VecGeom: Validation

*Wednesday, 16 March 2016 10:00 (1 hour)*

**Presenters:** COSMO, Gabriele (CERN); GHEATA, Mihaela (ISS - Institute of Space Science (RO))

**Session Classification:** Morning

Contribution ID: 13

Type: **not specified**

## **VecGeom: Shape Tests, Performance and Connectivity to Geant4**

*Wednesday, 16 March 2016 11:30 (1 hour)*

**Presenter:** LIMA, Guilherme (FermiLab (US))

**Session Classification:** Morning

Contribution ID: 14

Type: **not specified**

## Physics Framework Design and Implementation, FastSim (Status)

*Thursday, 17 March 2016 09:00 (1 hour)*

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

**Session Classification:** Morning

Contribution ID: 15

Type: **not specified**

## Latest EM Developments

*Thursday, 17 March 2016 10:00 (45 minutes)*

**Presenter:** NOVAK, Mihaly (CERN)

**Session Classification:** Morning

Contribution ID: 16

Type: **not specified**

## Vector EM Physics Models: Status, Validation and Integration

*Thursday, 17 March 2016 11:00 (45 minutes)*

**Presenters:** APOSTOLAKIS, John (CERN); BANDIERAMONTE, Marilena (CERN); JUN, Soon Yung (Fermi National Accelerator Lab. (US))

**Session Classification:** Morning



Contribution ID: 23

Type: **not specified**

## Vector Navigation: Status

*Tuesday, 15 March 2016 09:00 (45 minutes)*

**Presenter:** WENZEL, Sandro Christian (CERN)

**Session Classification:** Morning

Contribution ID: 24

Type: **not specified**

## CUDA & KNC/L Porting

*Tuesday, 15 March 2016 14:00 (1 hour)*

**Presenter:** Dr VALLECORSA, Sofia (Gangneung-Wonju National University (KR))

**Session Classification:** Afternoon

Contribution ID: 25

Type: **not specified**

## MPI Porting and Benchmarking

*Tuesday, 15 March 2016 15:00 (30 minutes)*

**Presenter:** BANDIERAMONTE, Marilena (CERN)

**Session Classification:** Afternoon

Contribution ID: 26

Type: **not specified**

## GeantV: Overall Performance

*Tuesday, 15 March 2016 16:00 (30 minutes)*

**Presenter:** CANAL, Philippe (Fermi National Accelerator Lab. (US))

**Session Classification:** Afternoon

Contribution ID: 27

Type: **not specified**

## Performance Profiling and Benchmarking

*Tuesday, 15 March 2016 16:30 (30 minutes)*

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

**Session Classification:** Afternoon

Contribution ID: 28

Type: **not specified**

## **Integration Tests (ExN03 <-> CMS), Unit Tests and Debugging Aids**

*Tuesday, 15 March 2016 17:00 (1 hour)*

**Session Classification:** Afternoon

Contribution ID: 29

Type: **not specified**

## Parallel Sessions by WG

*Friday, 18 March 2016 09:00 (3 hours)*

**Session Classification:** Morning

Contribution ID: **31**

Type: **not specified**

## Parallel Sessions by WG

*Friday, 18 March 2016 13:30 (3 hours)*

**Session Classification:** Afternoon



Contribution ID: **32**

Type: **not specified**

## Parallel Sessions by WG

*Thursday, 17 March 2016 14:00 (1h 30m)*

**Session Classification:** Afternoon

Contribution ID: 33

Type: **not specified**

## Summary of Workshop and the Next Milestone

*Thursday, 17 March 2016 16:00 (1 hour)*

**Presenters:** CARMINATI, Federico (CERN); CANAL, Philippe (Fermi National Accelerator Lab. (US))

**Session Classification:** Afternoon

Contribution ID: **34**

Type: **not specified**

## Parallel Sessions by WG

*Wednesday, 16 March 2016 14:00 (3 hours)*

**Session Classification:** Afternoon