

# **Vth INFIERI WORKSHOP: INFIERI AT CERN**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## REGISTRATION

*Monday 27 April 2015 08:50 (10 minutes)*

**Presenter:** ALL

Contribution ID: 1

Type: **not specified**

## **SEMINAR on NEW PROJECT AT CERN: CLIC detector challenges and motivation for energy frontier physics**

*Monday 27 April 2015 16:00 (45 minutes)*

**Presenter:** REDFORD, Sophie (CERN)

Contribution ID: 2

Type: **not specified**

## **SEMINARS on NEW PROJECTS; The FUTURE CIRCULAR COLLIDERS (FCCs) : a long-term future for high-energy physics**

*Tuesday 28 April 2015 16:00 (45 minutes)*

**Presenter:** JANOT, Patrick (CERN)

Contribution ID: 3

Type: **not specified**

## **New trends on Advanced 3D vertical interconnect technology**

*Monday 27 April 2015 13:50 (30 minutes)*

**Presenter:** PATTI, Robert (Tezzaron Semiconductor)

**Session Classification:** WP2-SESSION on ADVANCED 3D INTERCONNECTS TECHNOLOGY(ies) & APPLICATIONS

Contribution ID: 4

Type: **not specified**

## WP2 INFIERI APPLICATION

*Monday 27 April 2015 14:20 (20 minutes)*

**Presenter:** VIGNETTI, Matteo Maria (Institut des Nanotechnologies de Lyon (INL-CNRS))

**Session Classification:** WP2-SESSION on ADVANCED 3D INTERCONNECTS TECHNOLOGY(ies) & APPLICATIONS

Contribution ID: 5

Type: **not specified**

## ProtoVIPRAM00 Performance studies

*Monday 27 April 2015 14:40 (25 minutes)*

**Presenter:** TRAN, Nhan Viet (Fermi National Accelerator Lab. (US))

**Session Classification:** WP2-SESSION on ADVANCED 3D INTERCONNECTS TECHNOLOGY(ies) & APPLICATIONS

Contribution ID: 8

Type: **not specified**

## **New developments on OWC at SSSA**

*Tuesday 28 April 2015 09:00 (30 minutes)*

**Presenter:** COSSU, Giulio (eduGAIN - Scuola Superiore Sant'Anna)

**Session Classification:** WP3-SESSION on DATA TRANSMISSION and APPLICATIONS



Contribution ID: 9

Type: **not specified**

## **New developments on the GBT for higher luminosity LHCb case: the new GWT device**

*Tuesday 28 April 2015 09:50 (30 minutes)*

**Presenter:** VISSER, Jan (NIKHEF (NL))

**Session Classification:** WP3-SESSION on DATA TRANSMISSION and APPLICATIONS

Contribution ID: **10**

Type: **not specified**

## **Data transmission and Medical Imaging case**

*Tuesday 28 April 2015 09:30 (20 minutes)*

**Presenter:** KONSTANTINOU, Georgios (Universidad Carlos III de Madrid)

**Session Classification:** WP3-SESSION on DATA TRANSMISSION and APPLICATIONS

Contribution ID: **11**

Type: **not specified**

## **New trends on data transmission at CERN**

**Presenter:** TBA

Contribution ID: 12

Type: **not specified**

## **SKA Data processing challenges and foreseen solutions**

**Presenter:** HALSALL (TBC), Rob (RAL-STFC)

Contribution ID: 13

Type: **not specified**

## The L1 Track Finder for CMS at HL-LHC

*Tuesday 28 April 2015 14:50 (40 minutes)*

**Presenters:** CIERI, Davide (STFC - Rutherford Appleton Lab. (GB)); FEDI, Giacomo (Universita di Pisa & INFN (IT))

**Session Classification:** WP4-SESSION on INTELLIGENT ADVANCED PROCESSING, new accelerators, firmware & realtime algorithms

Contribution ID: 14

Type: **not specified**

## Advanced Data Processing for Medical Imaging

*Tuesday 28 April 2015 13:30 (40 minutes)*

**Presenters:** DEY, Thomas (Philips Research); KOSTARA, eleftheria (INFN-Pisa and Siena University)

**Session Classification:** WP4-SESSION on INTELLIGENT ADVANCED PROCESSING, new accelerators, firmware & realtime algorithms

Contribution ID: 15

Type: **not specified**

# The CMS Tracking Upgrade for HL-LHC

*Tuesday 28 April 2015 14:10 (40 minutes)*

**Presenter:** ABBANEO, Duccio (CERN)

**Session Classification:** WP4-SESSION on INTELLIGENT ADVANCED PROCESSING, new accelerators, firmware & realtime algorithms

Contribution ID: **19**

Type: **not specified**

## **CMS Tracker module/hybrid tests and DAQ development for the HL-LHC**

*Wednesday 29 April 2015 16:00 (20 minutes)*

**Presenter:** AUZINGER, Georg (CERN)

**Session Classification:** TESTS FACILITIES and DEMONSTRATORS



Contribution ID: 20

Type: **not specified**

## Phase 1 Pixel Upgrade at CERN

*Wednesday 29 April 2015 16:20 (20 minutes)*

**Presenter:** MERSI, Stefano (CERN)

**Session Classification:** TESTS FACILITIES and DEMONSTRATORS

Contribution ID: 21

Type: **not specified**

# The Future of Neutrino Physics

**Presenter:** HU, Zhen (Fermi National Accelerator Lab. (US))

Contribution ID: 22

Type: **not specified**

## **The Phi-sector for the Pixels Phase1 as an overall test bench for Si-tracking**

**Presenter:** TBA

Contribution ID: 23

Type: **not specified**

## **Medical Imaging Test Facility by SEDECAL in Madrid**

*Wednesday 29 April 2015 13:30 (20 minutes)*

**Presenter:** VAQUERO, Juan José (Universidad Carlos III de Madrid)

**Session Classification:** WP6-SESSION: TESTS & DEMONSTRATORS

Contribution ID: 24

Type: **not specified**

## **Test Beam characterization of 3D interconnect pixel demonstrator at FNAL**

*Wednesday 29 April 2015 13:50 (20 minutes)*

**Presenter:** JONES, Timothy Matthew (Purdue University (US))

**Session Classification:** WP6-SESSION: TESTS & DEMONSTRATORS

Contribution ID: 25

Type: **not specified**

## Test beam facility at FNAL

*Wednesday 29 April 2015 14:30 (20 minutes)*

**Presenter:** UPLEGGGER, Lorenzo (Fermi National Accelerator Lab. (US))

**Session Classification:** WP6-SESSION: TESTS & DEMONSTRATORS

Contribution ID: 26

Type: **not specified**

## Test bench Facility for Phase 1 Pixels at FNAL

*Wednesday 29 April 2015 14:50 (20 minutes)*

**Presenter:** HASEGAWA, Satoshi (Fermi National Accelerator Lab. (US))

**Session Classification:** WP6-SESSION: TESTS & DEMONSTRATORS

Contribution ID: 27

Type: **not specified**

## **The IDEASQUARE and Innovation at CERN**

*Wednesday 29 April 2015 15:10 (30 minutes)*

**Presenter:** NESSI, Marzio (CERN)

**Session Classification:** WP6-SESSION: TESTS & DEMONSTRATORS



Contribution ID: 28

Type: **not specified**

## **Lab Bench for SiPM characterization for the CTA camera**

*Wednesday 29 April 2015 11:00 (20 minutes)*

**Presenter:** WATSON, Jason (Oxford)

**Session Classification:** WP5-SESSION:TRANSVERSAL TOOLS

Contribution ID: 29

Type: **not specified**

## **Lab test for OWC at SSSA & CERN secondment prospects**

*Wednesday 29 April 2015 11:20 (20 minutes)*

**Presenter:** ALI, Wajahat (SSSUP Pisa Italy)

**Session Classification:** WP5-SESSION:TRANSVERSAL TOOLS

Contribution ID: **30**

Type: **not specified**

## **MP7 based Demonstrator**

*Wednesday 29 April 2015 11:40 (30 minutes)*

**Presenter:** BUNDOCK, Aaron (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** WP5-SESSION:TRANSVERSAL TOOLS

Contribution ID: 31

Type: **not specified**

## Compactification of pixel data at the FEE

*Wednesday 29 April 2015 12:10 (20 minutes)*

**Presenter:** POULIOS, Stamatios (INFN-Pisa and Siena University)

**Session Classification:** WP5-SESSION:TRANSVERSAL TOOLS

Contribution ID: 32

Type: **not specified**

## 1. WP1 & related CERN activities

**Presenter:** BALLABRIGA SUNE (TBC), Rafael (CERN)

Contribution ID: 33

Type: **not specified**

## The L1 Pixel trigger

*Wednesday 29 April 2015 16:40 (20 minutes)*

**Presenter:** CHRISTIAN, David (Fermilab)

**Session Classification:** TESTS FACILITIES and DEMONSTRATORS

Contribution ID: 34

Type: **not specified**

## **Seminars on NEW PROJECTS:The SQUARE KILOMETER ARRAY PROJECT, Pathfinder and overall project objectives and workplan**

*Tuesday 28 April 2015 16:45 (45 minutes)*

**Presenter:** TORCHINSKY, Stephen (Observatoire de Paris et Nancay)

Contribution ID: 35

Type: **not specified**

## **SEMINAR on NEW PROJECT: SKA, The SQUARE KILOMETER ARRAY**

**Presenter:** JONES (TBC), Mike (OXFORD)



Contribution ID: 36

Type: **not specified**

## **SEMINAR on NEW PROJECTS: An overview of the Cherenkov Telescope Array and a look at INFIERI demonstrators for the CTA cameras**

*Monday 27 April 2015 16:45 (30 minutes)*

**Presenter:** COTTER, Garret (University of Oxford)

Contribution ID: 37

Type: **not specified**

## ATLAS IBL and New Pixel Developments

*Monday 27 April 2015 11:30 (40 minutes)*

**Presenter:** PERNEGGER, Heinz (CERN)

**Session Classification:** WP1 & related CERN activities

Contribution ID: **38**

Type: **not specified**

## **New VELO-LHCb Detector**

**Presenter:** COLLINS (TBC), Paula (CERN)

Contribution ID: 39

Type: **not specified**

## **MEDIPIX New ASIC developments for Medical Imaging and HEP**

*Monday 27 April 2015 12:20 (30 minutes)*

**Presenter:** BALLABRIGA SUNE, Rafael (CERN)

**Session Classification:** WP1 & related CERN activities

Contribution ID: 40

Type: **not specified**

## **Towards New Developments on Si Photonics at CERN**

*Tuesday 28 April 2015 11:00 (30 minutes)*

**Presenter:** SEIF EL NASR, Sarah (CERN, University of Bristol (GB))

**Session Classification:** WP1-and WP3-SECTION on NEW TRENDS in DATA TRANSMISSION and in NEW PIXELS DEVELOPMENTS

Contribution ID: 41

Type: **not specified**

## **New VELO-LHCb Pixel Detector for Higher Luminosity at LHCb experiment**

*Tuesday 28 April 2015 11:30 (20 minutes)*

**Presenter:** COLLINS, Paula (CERN)

**Session Classification:** WP1-and WP3-SECTION on NEW TRENDS in DATA TRANSMISSION and in NEW PIXELS DEVELOPMENTS

Contribution ID: 42

Type: **not specified**

## **RD53 R&D for a NEW FRONT END ASIC for new PIXEL DEVICES**

*Tuesday 28 April 2015 11:50 (30 minutes)*

**Presenter:** CHRISTIANSEN, Jorgen (CERN)

**Session Classification:** WP1-and WP3-SECTION on NEW TRENDS in DATA TRANSMISSION and in NEW PIXELS DEVELOPMENTS

Contribution ID: 43

Type: **not specified**

## CLOSING TALK

*Wednesday 29 April 2015 17:00 (45 minutes)*

**Presenter:** BERTOLUCCI, Sergio (CERN)



Contribution ID: 44

Type: **not specified**

## High Speed Optical Links and High Speed Meshes

*Tuesday 28 April 2015 10:20 (15 minutes)*

**Presenter:** ILES, Gregory Michiel (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** WP3-SESSION on DATA TRANSMISSION and APPLICATIONS

Contribution ID: 45

Type: **not specified**

## **Pathfinders as test benches for Astrophysics experiments: the SKA case**

**Presenter:** TORCHINSKY, Stephen (Observatoire de Paris et Nancay)

Contribution ID: 46

Type: **not specified**

## **Pathfinders as test benches for Astrophysics experiment: the SKA case**

**Presenter:** TORCHINSKY, Stephen (Observatoire de Paris et Nancay)

Contribution ID: 47

Type: **not specified**

## **Status of Tracking Trigger Demonstration Test Bench Development at FNAL**

*Wednesday 29 April 2015 10:00 (30 minutes)*

**Presenter:** HU, Zhen (Fermi National Accelerator Lab. (US))

**Session Classification:** WP5-SESSION:TRANSVERSAL TOOLS

Contribution ID: 49

Type: **not specified**

## The INFN camera demonstrator for CTA

*Wednesday 29 April 2015 09:40 (20 minutes)*

**Presenter:** Prof. PAOLETTI, Riccardo (University of Siena/INFN Pisa)

**Session Classification:** WP5-SESSION:TRANSVERSAL TOOLS

Contribution ID: 50

Type: **not specified**

## **Outreach and Dissemination in INFIERI: status and perspectives/new developments**

*Wednesday 29 April 2015 09:10 (30 minutes)*

**Presenter:** LIGABUE, Franco (Universita di Pisa & INFN (IT))

**Session Classification:** WP8-SESSION:OUTREACH & DISSEMINATION