

# **Forum on Tracking Detector Mechanics 2017**

## **Report of Contributions**

Contribution ID: **38**

Type: **not specified**

## **Radiation length imaging with high resolution telescopes**

*Monday, 3 July 2017 10:15 (30 minutes)*

**Presenter:** STOLZENBERG, Ulf

Contribution ID: 39

Type: **not specified**

## **Fiber optic-based sensors for relative humidity monitoring in the experiments running at CERN**

*Monday, 3 July 2017 11:00 (30 minutes)*

**Presenter:** BERRUTI, Gaia Maria (CERN)

Contribution ID: 40

Type: **not specified**

## **Summary on performance of "safety" environmental sensors on the CMS Tracker**

*Monday, 3 July 2017 11:45 (30 minutes)*

**Presenter:** TSIROU, Andromachi (CERN)

Contribution ID: 41

Type: **not specified**

## **CMS Phase 1 FPIX: Lessons Learned**

*Monday, 3 July 2017 13:30 (30 minutes)*

**Presenter:** GRUENENDAHL, Stefan (Fermi National Accelerator Lab. (US))

Contribution ID: 42

Type: **not specified**

## **Thermal Measurements and FEA of the 2S Module for the CMS Phase-2 Tracker Upgrade**

*Monday, 3 July 2017 14:15 (30 minutes)*

**Presenter:** RAUCH, Max Philip (Rheinisch-Westfaelische Tech. Hoch. (DE))

Contribution ID: 43

Type: **not specified**

## **Quality assurance for CMS Tracker Phase II upgrade 2S modules**

*Monday, 3 July 2017 15:00 (30 minutes)*

**Presenter:** BONNAUD, Julien (CERN)

Contribution ID: 44

Type: **not specified**

## **CMS Flat Barrel outer tracker for HL-LHC**

*Monday, 3 July 2017 16:15 (30 minutes)*

**Presenter:** LEI, C. M. (Fermi National Accelerator Lab. (US))



Contribution ID: 45

Type: **not specified**

# **Design and prototyping of the Endcaps for the CMS Tracker Upgrade**

*Monday, 3 July 2017 17:00 (30 minutes)*

**Presenter:** LUMB, Nick (Universite Claude Bernard-Lyon I (FR))

Contribution ID: 46

Type: **not specified**

## **Mechanical concept, design and prototyping of the Silicon Tracking System for the CBM Experiment at FAIR**

*Monday, 3 July 2017 17:45 (30 minutes)*

**Presenter:** VASYLYEV, Oleg (Gesellschaft für Schwerionenforschung)

Contribution ID: 47

Type: **not specified**

## **Characterization of materials for HL tracker upgrades**

*Tuesday, 4 July 2017 09:00 (30 minutes)*

**Presenter:** PACIFICO, Nicola (CERN)

Contribution ID: 48

Type: **not specified**

## **Thermal and tensile strength testing of thermally-conductive adhesives and carbon foam**

*Tuesday, 4 July 2017 09:45 (30 minutes)*

**Presenter:** CHERTOK, Maxwell (University of California Davis (US))

Contribution ID: 49

Type: **not specified**

## **SiPM cooling and mechanical support structure of the large area Scintillating Fibre Tracker of LHCb**

*Tuesday, 4 July 2017 11:00 (30 minutes)*

**Presenter:** Mr WALET, Robbert Cornell (Nikhef National institute for subatomic physics (NL))

Contribution ID: 50

Type: **not specified**

## **Module Design and Cooling Integration for the LHCb VELO Upgrade**

*Tuesday, 4 July 2017 11:45 (30 minutes)*

**Presenter:** BYCZYNSKI, Wiktor (CERN)

Contribution ID: 51

Type: **not specified**

## **Local supports for the ATLAS ITk strip tracker**

*Tuesday, 4 July 2017 14:15 (30 minutes)*

**Presenter:** BECK, Graham (University of London (GB))

Contribution ID: 52

Type: **not specified**

## **The forward regions of the ATLAS ITk strips detector for the Phase-II Upgrade**

*Tuesday, 4 July 2017 15:00 (30 minutes)*

**Presenters:** ARLING, Jan-Hendrik (Deutsches Elektronen-Synchrotron (DE)); DIEZ CORNELL, Sergio (Deutsches Elektronen-Synchrotron (DESY))



Contribution ID: 53

Type: **not specified**

## **Novel low material-budget detector cooling strategies for inclined modules in silicon tracker detectors**

*Tuesday, 4 July 2017 16:15 (20 minutes)*

**Presenter:** GOMEZ BOSCH, Ruben (Centro de Investigaciones Energéticas Medioambientales y Tecno)

Contribution ID: 54

Type: **not specified**

## **Alpine stave mechanical proposal for the ATLAS pixel upgrade project**

*Tuesday, 4 July 2017 16:35 (20 minutes)*

**Presenter:** PETIT, Elisabeth (LPSC-Grenoble, CNRS/UGA (FR))

Contribution ID: 55

Type: **not specified**

## **The Phase-II ATLAS Pixel Tracker Upgrade: Readout for Thermal Characterisation of Prototype Staves**

*Tuesday, 4 July 2017 16:55 (20 minutes)*

**Presenter:** SHARMA, Abhishek (University of Oxford (GB))

Contribution ID: 56

Type: **not specified**

## **Thermal QC of ATLAS upgrade forward pixel rings**

*Tuesday, 4 July 2017 17:45 (30 minutes)*

**Presenter:** SCHARMBERG, Nicolas (University of Manchester (GB))

Contribution ID: 57

Type: **not specified**

## **Diamond-like Heat Spreaders in the Form of Cheap Synthetic Graphite Tape for Cooling of Instrumentation in Radiation Intense Environments**

*Wednesday, 5 July 2017 09:00 (30 minutes)*

**Presenter:** DE BOER, Wim (KIT - Karlsruhe Institute of Technology (DE))

Contribution ID: 58

Type: **not specified**

## **Micro-channel cooling INSIDE silicon sensors**

*Wednesday, 5 July 2017 09:45 (30 minutes)*

**Presenter:** VILLAREJO BERMUDEZ, Miguel-Angel (IFIC-UV (ES))

Contribution ID: 59

Type: **not specified**

## **Operational experience from the use of a 90 metre thermosiphon cooling plant for C3F8 evaporative cooling of the ATLAS silicon tracker**

*Wednesday, 5 July 2017 11:00 (30 minutes)*

**Presenter:** ROSSI, Cecilia (INFN e Universita Genova (IT))

Contribution ID: 60

Type: **not specified**

**Reduced temperature cooling and heat transfer measurements in C<sub>2</sub>F<sub>6</sub>/C<sub>3</sub>F<sub>8</sub> zeotropic blends, and custom ultrasonic instrumentation for blend measurement and leak monitoring into the environmental volumes of the ATLAS silicon tracker**

*Wednesday, 5 July 2017 11:45 (30 minutes)*

**Presenters:** MADSEN, Alexander (Deutsches Elektronen-Synchrotron (DE)); HALLEWELL, Gregory (Centre National de la Recherche Scientifique (FR))



Contribution ID: **61**

Type: **not specified**

## **CO2 superheating and boiling onset measurements in the ATLAS IBL CO2 cooling system**

*Wednesday, 5 July 2017 13:30 (30 minutes)*

**Presenter:** SLIWA, Krzysztof (Cracow University of Technology (PL))

Contribution ID: 62

Type: **not specified**

## **Monoblock Approach for a Refrigeration Technical Application (MARTA). Industrial development of Transportable Refrigeration Apparatus for CO<sub>2</sub> Investigation (TRACI)**

*Wednesday, 5 July 2017 14:15 (30 minutes)*

**Presenter:** KANTOR, Ryszard (Cracow University of Technology (PL))

Contribution ID: 63

Type: **not specified**

## **The LUCASZ CO2 cooling systems at CERN and Cornell University**

*Wednesday, 5 July 2017 15:00 (30 minutes)*

**Presenters:** VERLAAT, Bart (CERN); PADILLA FUENTES, Yadira (Cornell University (US))