Session Program

29-31 May 2024



Forum on Tracking Detector Mechanics 2024 Talks

Purdue CMSC, Large Conference room
Purdue University 1105 Endeavour Dr Suite 100, West Lafayette, IN 47906, USA https://www.purdue.edu/ cmsc/

Wednesday 29 May

11:10

Talks: Session B

Session |

Location: Purdue CMSC, Large Conference room, Purdue University 1105 Endeavour Dr Suite 100, West Lafayette, IN 47906, USA https://www.purdue.edu/cmsc/

11:10-11:30

Large-Scale Comprehensive Thermal Simulation of the CBM Silicon Tracking System (STS) on the Virgo Cluster at GSI

Speaker

Ilya Elizarov

11:40-12:00 GridPix TPC as a tracking and PID device

Speaker

Prakhar Garg

12:10-12:30

Outsource production and the design of Phase-2 CO2 cooling systems.

Speaker

Krzysztof Sliwa

12:40 13:30

Talks: Session C

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13:30-13:50

Overview of the CO2 cooling DEMO obtained results and a prediction of future system behavior.

Speakers

Bart Verlaat, Youri Penders

14:00-14:20

Flow distribution capillary tube testing for the CMS silicon detector upgrades

Speaker

Derek Jan Langedijk

14:30-14:50

TB2S Ladder Assembly and Qualification for CMS Outer Tracker System

Speaker

Saleh Muhammad

15:00 15:20

Talks: Session D

Session

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15:20-15:50

TFPX-TBPX adjustable mechanical connection tests for the Phase II integration of the CMS Inner Tracker

Speaker

Daniele Benvenuti

16:00-16:30

Structural Composite Design, Simulation, and Testing of the HL-CMS Inner and Outer Tracker Support Tubes

Speaker

Ben Denos

16:40-17:00

Design and testing of a dynamic support frame structure for the CMS tracker installation process

Speaker

Mikko Tapani Barinoff

17:10

Thursday 30 May

08:30 Talks: Session E Location: Purdue CMSC, Large Conference room, Purdue University 1105 Endeavour Dr Suite 100, West Lafayette, IN 47906, USA https://www.purdue.edu/cmsc/ 08:30-08:50 Design and manufacture of the supports for the ATLAS barrel strip staves Speaker Qing Yang 09:00-09:20 Development of a robotic system for automatic prepreg layup and production of co-cured facesheets for the ATLAS ITk strip end-cap detector Speaker Mr Sören Ahrens 09:30-09:50 First experience from the system test setup for the ATLAS ITk strips end-cap detector Speaker Jan-Hendrik Arling 10:00 10:30 Talks: Session F Session Location: Purdue CMSC, Large Conference room, Purdue University 1105 Endeavour Dr Suite 100, West Lafayette, IN 47906, USA https://www.purdue.edu/cmsc/ 10:30-10:50 Welding Development for Thin-Wall Ti Cooling Tubes for the ATLAS Inner Tracker Jerin Pappachan 11:00 11:00 Talks: Industry talks Session Location: Purdue CMSC, Large Conference room, Purdue University 1105 Endeavour Dr Suite 100, West Lafayette, IN 47906, USA https://www.purdue.edu/cmsc/ 11:00-11:20 Toray: Advanced Composites - Business Overview Speaker Greg Waldrip 11:30-11:50 Rockwest: CMS BTST Fabrication Methods and Capabilities Overview Speaker Johnny Marks 11:55

14:00

Talks: Session G

Session

Location: Purdue CMSC, Large Conference room, Purdue University 1105 Endeavour Dr Suite 100, West Lafayette, IN 47906, USA https://www.purdue.edu/cmsc/

14:00-14:20 Investigating Cracks in ATLAS ITk Strips

Speakers

Giorgio Vallone, Haider Abidi

14:30-14:50

Mechanical Performance of Irradiated Adhesive Samples for ATLAS ITk

Neal David Hartman, Todd Claybaugh

15:00-15:20

A thermal interface material for the PS modules of the CMS Outer Tracker upgrade.

Speaker

Moritz Guthoff

15:30 16:15

Talks: Session H

Session

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16:15-16:35 Thermal Metrology for Understanding Tracking Detector Materials

Speaker

Zixin Xiong

16:45-17:05

A Finite Volume Analysis for evaluating the thermal performance of an air-cooling system for the IDEA Vertex Detector at FCC-ee.

Speaker

Cristiano Turrioni

17:35