



Istituto Nazionale di Fisica Nucleare

Forum on Tracking Detector Mechanics 2022

Introduction to posters

Aula B. Touschek, LNF

Paolo Petagna

15:30 - 15:35

11 Posters this year, covering 3 areas:

- **Module's Thermal Management**

- Integration Test with 2S Module Prototypes on a CO₂ Cooled Ladder (**CMS**)
- Challenges on the experimental validation of Finite Volume Model thermal simulation of Modules for the **CMS** Phase II Outer Tracker
- **CMS** Phase-2 Tracker endcap module cooling
- CO₂ evaporative cooling system for the **LHCb** UT Detector
- Study of Thermal Interface Material for Front End Electronics Cooling of Silicon Tracking System (**CBM**)
- Thermal pretest @ the front-end electronic area of the STT detector (**PANDA**)

- **Integration and Production**

- Overview of the production preparations for the **ATLAS** ITk strip end-cap detector at DESY
- Services Design for the **CMS** Phase II Outer Tracker Endcaps (TEDDs)
- Integration and assembly of the **LHCb** Upstream Tracker

- **Environmental Monitoring**

- LPG sensor technology for environmental monitoring: from the laboratory to the detector (**ATLAS**)
- Solutions for humidity and temperature monitoring in the Silicon Tracking System of the **CBM** experiment