

Session Program

16-20 Jun 2025



Forum on Tracking Detector Mechanics 2025

Forum 2025 - session 2

Merchant Venturer's Building, 1.11/1.11a
University of Bristol Woodland Rd, Clifton, Bristol BS8 1UB

Tuesday 17 June

09:00

Forum 2025 - session 2

Session |

Location: Merchant Venturer's Building, 1.11/1.11a, University of Bristol Woodland Rd, Clifton, Bristol BS8 1UB

09:00–09:30

Status of CMS phase2 TBPX detector mechanics: Layer 3 prototype and final External Cylinder construction and testing, thermal tests on the mechanical structure

Speaker

Daniele Benvenuti

09:40–10:00

Ultra-light ladder design for the CMS Inner Tracker TBPX Layer1 replacement

Speaker

Pier Filippo Cianchetta

10:10–10:30

HL-LHC CMS Barrel Timing Layer and Tracker Support Tube: Mechanical Loading Tests, Metrology, Integration and Installation Updates

Speaker

Sushrut Rajendra Karmarkar

10:40–11:10

Coffee

11:10–11:30

Overview of Joining Methods and Process Management in the Production of CO₂ Cooling Pipes for the TB2S detector - CMS Tracker Upgrade

Speaker

Joao Batista Lopes

11:40–12:00

Experimental tests on TBPX cooling loops at different CO₂ vapour qualities

Speaker

Mr Lorenzo Bistoni

12:10–12:30

Temperature dependent thermal conductivity measurements and their effects on the thermal management predictions for CMS TFPX Dees

Speakers

Benjamin Edward Pulver, Yuvraj Chauhan

12:40–12:50

MCD Light-Weighting

Speaker

Andrew Mills

12:50