

Session Program

16-20 Jun 2025



Forum on Tracking Detector Mechanics 2025

DRD 8 collaboration meeting

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

Thursday 19 June

09:00

DRD 8 collaboration meeting: Introduction and Contributions WP4

Session |

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

Conveners: Joao Batista Lopes, Burkhard Schmidt, Diego Alvarez Feito

09:00–09:20

Introduction to the DRD8 part of the meeting

Speaker

Burkhard Schmidt

09:20–09:40

Introduction WP4

Speakers

Diego Alvarez Feito, Joao Batista Lopes

09:40–10:05

Mixed Reality 3D Integration Studies for CERN Accelerators

Speaker

Julie Coupard

10:05–10:30

3D automatic representation based on the planning progress

Speakers

Fernando Baltasar Dos Santos Pedrosa, Joao Filipe Carvalhais Dos Santos De Matos

10:30

11:00

DRD 8 collaboration meeting: WP2 contributions

Session |

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

Conveners: Sushrut Rajendra Karmarkar, Adam Dominic Lowe

11:00–11:05

Introduction WP2 Goals, Milestones and Deliverables

Speakers

Adam Dominic Lowe, Sushrut Rajendra Karmarkar

11:05–11:15

Updates on Project 2.2 - Material Characterization

Speaker

Sushrut Rajendra Karmarkar

11:15–11:25

Updates on Project 2.2 - Database development efforts

Speaker

Nicola Pacifico

11:25–11:45

Biomimetic, hierarchical composites for novel structures

Speaker

Laura Rhian Pickard

11:50–12:10

Updates on Project 2.1 Design specification for future tracking detectors mechanics

Speakers

Adam Dominic Lowe, Sushrut Rajendra Karmarkar

12:10–12:30

Industry Partners - Composites In Motorsports - Brick Kiln Composites**Speaker**

Adam Dominic Lowe

12:30

13:30

DRD 8 collaboration meeting: WP1 Contributions**Session** |**Location:** Merchant Venturer's Building, 1.11/1.11a, University of Bristol Woodland Rd, Clifton, Bristol BS8 1UB |**Conveners:** Fabrizio Palla, Corrado Gargiulo, Fabrizio Palla

13:30–13:50

Introduction with confirmation of Milestones e Deliverables, and discussion on Institute commitments**Speakers**

Fabrizio Palla, Fabrizio Palla

13:50–14:10

Experience at SuperKEKB with Interaction Region Integration**Speakers**

Shuji Tanaka, Shuji Tanaka

14:10–14:30

Mock up status and perspectives at Frascati**Speaker**

Manuela Boscolo

14:30–14:50

Composite beam pipes with focus on secondary vacuum and cooling envelope for FCC-ee**Speaker**

Rodrigo Jose Da Silva

14:50–15:10

Design and system test of a cooling system for the FCC-ee vertex detector**Speaker**

Gherardo Ammirabile

15:10–15:30

Robotics status and perspectives**Speaker**

Luca Bernardi

15:30

16:00

DRD 8 collaboration meeting: WP3 contributions**Session** |**Location:** Merchant Venturer's Building, 1.11/1.11a, University of Bristol Woodland Rd, Clifton, Bristol BS8 1UB |**Conveners:** Oscar Augusto De Aguiar Francisco, Bart Verlaet

16:00–16:20

Introduction WP3**Speakers**

Bart Verlaet, Oscar Augusto De Aguiar Francisco

16:20–16:40

Exploring the heat transfer potential of supercritical CO₂**Speaker**

Ms Camila Rocio Pedano Medina

16:40–17:00

Experimental assessment of a cascade refrigeration system CO₂-Krypton for ultra-low temperature detector cooling**Speakers**

Luca Contiero, Luca Contiero, Paolo Petagna

17:00–17:20

Development of embedded microchannels at CNM towards full compatibility with CMOS sensors**Speaker**

Javier Fernandez-Tejero

17:20–17:40

Development of hydraulic interconnection and cooling supports with 3D technologies**Speakers**

Giovanni Calderini, Giovanni Calderini

17:40–18:00

Development of a lightweight self-cooled Silicon pixel detector**Speaker**

Fabrizio Palla

18:00