

17th Terascale Detector Workshop 2025

Report of Contributions

Contribution ID: 1

Type: **not specified**

Detector School: Micropattern Gaseous Detectors

Contribution ID: 2

Type: **not specified**

Detector School: Micropattern Gaseous Detectors

Contribution ID: 3

Type: **not specified**

Detector School: Micropattern Gaseous Detectors

Contribution ID: 4

Type: **not specified**

Detector School: Micropattern Gaseous Detectors

Contribution ID: 5

Type: **not specified**

Welcome

Wednesday 19 March 2025 14:00 (15 minutes)

Contribution ID: 6

Type: **not specified**

Closing

Friday 21 March 2025 12:30 (15 minutes)

Contribution ID: 7

Type: **not specified**

Detector Board Meeting

Friday 21 March 2025 12:45 (45 minutes)

Contribution ID: 8

Type: **not specified**

test

Session Classification: German Detector Consortia Meetings

Contribution ID: 9

Type: **not specified**

Introduction to AI for detectors

Friday 21 March 2025 09:00 (45 minutes)

Presenter: KIESELER, Jan (KIT)

Session Classification: Artificial Intelligence for Detectors

Contribution ID: **10**

Type: **not specified**

Differentiating electromagnetic showers in a sampling calorimeter

Friday 21 March 2025 09:45 (30 minutes)

Presenter: GAUGER, Nicolas (RPTU Kaiserslautern)

Session Classification: Artificial Intelligence for Detectors

Contribution ID: **11**

Type: **not specified**

Optimization Stochastic Simulators in with Discrete Randomness

Friday 21 March 2025 11:15 (30 minutes)

Presenter: HEINRICH, Lukas

Session Classification: Artificial Intelligence for Detectors

Contribution ID: **12**

Type: **not specified**

Digital Discovery of Gravitational Wave Detectors

Friday 21 March 2025 11:45 (30 minutes)

Presenter: KLIMESCH, Jonathan (Max Planck Institute for the Science of Light)

Session Classification: Artificial Intelligence for Detectors

Contribution ID: **13**

Type: **not specified**

LGAD Timing Detectors for ATLAS and CMS

Thursday 20 March 2025 09:00 (30 minutes)

Presenter: MASETTI, Lucia (Johannes Gutenberg Universitaet Mainz)

Session Classification: Phase II Upgrades of ATLAS and CMS

Contribution ID: **14**

Type: **not specified**

ATLAS Pixel and Strip Detectors

Thursday 20 March 2025 09:30 (30 minutes)

Presenter: SPERLICH, Dennis (Albert-Ludwigs-Universität Freiburg)

Session Classification: Phase II Upgrades of ATLAS and CMS

Contribution ID: 15

Type: **not specified**

CMS Pixel and Strip Detectors

Thursday 20 March 2025 10:00 (30 minutes)

Presenters: KLEIN, Katja (RWTH Aachen); KLEIN, Katja (RWTH Aachen)

Session Classification: Phase II Upgrades of ATLAS and CMS

Contribution ID: **16**

Type: **not specified**

Status and experience from CMS HGCal component production

Thursday 20 March 2025 11:30 (30 minutes)

Presenter: KLUTE, Markus (KIT)

Session Classification: Phase II Upgrades of ATLAS and CMS

Contribution ID: 17

Type: **not specified**

Status and experience from ATLAS and CMS muon detector and component production

Thursday 20 March 2025 12:00 (30 minutes)

Presenter: HOEPPNER, Kerstin (RWTH Aachen)

Session Classification: Phase II Upgrades of ATLAS and CMS

Contribution ID: **18**

Type: **not specified**

Final prototyping of trigger and readout electronics ATLAS+CMS

Thursday 20 March 2025 14:15 (30 minutes)

Presenter: FILIMONOV, Viacheslav (JGU Mainz)

Session Classification: Phase II Upgrades of ATLAS and CMS

Contribution ID: **19**

Type: **not specified**

LHCb Tracking Upgrades

Thursday 20 March 2025 14:45 (30 minutes)

Presenter: PADEKEN, Klaas (HISKP University Bonn)

Session Classification: Phase IIb Upgrades of ALICE and LHCb

Contribution ID: 20

Type: **not specified**

LHCb Calorimeter and RICH Upgrades

Thursday 20 March 2025 15:15 (35 minutes)

Presenter: PAPANESTIS, Antonis (STFC - Rutherford Appleton Lab)

Session Classification: Phase IIb Upgrades of ALICE and LHCb

Contribution ID: 21

Type: **not specified**

Tracking systems of ALICE 3: A new heavy-ion detector at the LHC

Thursday 20 March 2025 16:45 (30 minutes)

Presenter: ULUKUTLU, Berkin (TU München)

Session Classification: Phase IIb Upgrades of ALICE and LHCb

Contribution ID: 22

Type: **not specified**

PID detectors for a next-generation heavy-ion experiment (ALICE3)

Thursday 20 March 2025 17:15 (30 minutes)

Presenter: COLOCCI, Manuel (University and INFN, Bologna)

Session Classification: Phase IIb Upgrades of ALICE and LHCb

Contribution ID: 23

Type: **not specified**

Highlights from the BMBF Detector R&D Consortia

Wednesday 19 March 2025 14:15 (45 minutes)

Presenters: DINGFELDER, Jochen (University of Bonn); KAMINSKI, Jochen (University of Bonn); CLIMESCU, Matei (Universität Mainz); AKBIYIK, Melike; HÖFLICH, Nina (III. Physikalisches Institut B, RWTH Aachen)

Session Classification: Detector R&D for Future Colliders

Contribution ID: 24

Type: **not specified**

Tracking: Requirements and Technology Challenges

Wednesday 19 March 2025 15:15 (45 minutes)

Presenter: GREGOR, Ingrid-Maria (DESY/Uni Bonn)

Session Classification: Detector R&D for Future Colliders

Contribution ID: 25

Type: **not specified**

Calorimetry: Requirements and Technology Challenges

Wednesday 19 March 2025 17:00 (45 minutes)

Presenters: MENKE, Sven (none); MENKE, Sven (MPI Munich)

Session Classification: Detector R&D for Future Colliders

Contribution ID: 26

Type: **not specified**

Cold electronics: lessons from cryogenic neutrino detectors for future calorimeters

Wednesday 19 March 2025 17:45 (45 minutes)

Presenter: HUANG, Roger (LBNL)

Session Classification: Detector R&D for Future Colliders

Contribution ID: 27

Type: **not specified**

Introduction and Welcome to FTD

Monday 17 March 2025 10:00 (15 minutes)

Presenters: DINGFELDER, Jochen (University of Bonn); HAUER, Philip (HISKP - Universität Bonn)

Session Classification: Detector School: Micropattern Gaseous Detectors - Introduction

Contribution ID: **28**

Type: **not specified**

Lecture - Introduction to MPGDs

Monday 17 March 2025 10:15 (1h 30m)

Presenter: KAMINSKI, Jochen (University of Bonn)

Session Classification: Detector School: Micropattern Gaseous Detectors - Introduction

Contribution ID: 29

Type: **not specified**

Radiation Protection Course

Monday 17 March 2025 11:45 (15 minutes)

Session Classification: Detector School: Micropattern Gaseous Detectors - Introduction

Contribution ID: **30**

Type: **not specified**

Introduction to Garfield++

Monday 17 March 2025 12:00 (30 minutes)

Presenter: NIKOLOPOULOS, Konstantinos (UNI/EXP (Uni Hamburg, Institut für Experimentalphysik))

Session Classification: Detector School: Micropattern Gaseous Detectors - Introduction

Contribution ID: **31**

Type: **not specified**

Group 01 - Assembly of a GEM Detector

Monday 17 March 2025 14:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 32

Type: **not specified**

Group 02 - Characterisation of a GEM Detector

Monday 17 March 2025 14:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 33

Type: **not specified**

Group 03 - Simulation of a GEM Detector

Monday 17 March 2025 14:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 34

Type: **not specified**

Group 01 - Characterisation of a GEM Detector

Tuesday 18 March 2025 09:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 35

Type: **not specified**

Group 02 - Simulation of a GEM Detector

Tuesday 18 March 2025 09:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 36

Type: **not specified**

Group 03 - Assembly of a GEM Detector

Tuesday 18 March 2025 09:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 37

Type: **not specified**

Group 01 - Simulation of a GEM Detector

Tuesday 18 March 2025 14:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: **38**

Type: **not specified**

Group 02 - Assembly of a GEM Detector

Tuesday 18 March 2025 14:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 39

Type: **not specified**

Group 03 - Characterisation of a GEM Detector

Tuesday 18 March 2025 14:00 (3h 30m)

Session Classification: Detector School: Micropattern Gaseous Detectors

Contribution ID: 40

Type: **not specified**

Silicon-D Consortium Meeting

Wednesday 19 March 2025 09:00 (3h 30m)

Session Classification: German Detector Consortia Meetings

Contribution ID: 41

Type: **not specified**

HOCHRAGEND Consortium Meeting

Wednesday 19 March 2025 09:00 (3h 30m)

Session Classification: German Detector Consortia Meetings

Contribution ID: 42

Type: **not specified**

Short Reports from the Detector School on MPGDs

Wednesday 19 March 2025 15:00 (15 minutes)

Presenter: SCHOOL PARTICIPANTS

Session Classification: Detector R&D for Future Colliders