

## **2. High-D Consortium Meeting**

# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome introduction to High-D

*Friday 2 September 2022 09:00 (30 minutes)*

**Presenter:** GARUTTI, Erika (UNI/EXP (Uni Hamburg, Institut fur Experimentalphysik))

Contribution ID: 2

Type: **not specified**

## Collaboration photo

*Friday 2 September 2022 15:20 (10 minutes)*

Contribution ID: 3

Type: **not specified**

## Closing remarks

*Monday 5 September 2022 15:30 (30 minutes)*

**Presenter:** LACKER, Heiko (Humboldt University of Berlin)

Contribution ID: 31

Type: **not specified**

## **WOM-based prototype detector: energy loss simulations, prototype construction, testbeam preparation**

*Friday 2 September 2022 13:00 (25 minutes)*

**Presenter:** LYONS, Fairhurst (University of Freiburg)

**Session Classification:** 5D Calorimetry

Contribution ID: 32

Type: **not specified**

## **Photon transport simulations for a WOM-based liquid-scintillator 1-cell detector**

*Friday 2 September 2022 13:25 (20 minutes)*

**Presenter:** BRIGNOLI, Alessia (Humboldt University)

**Session Classification:** 5D Calorimetry

Contribution ID: 33

Type: **not specified**

## WLS dip-coating of PMMA WOM tubes

*Friday 2 September 2022 13:45 (15 minutes)*

**Presenter:** SCHMIDT, Jakob (HU Berlin)

**Session Classification:** 5D Calorimetry

Contribution ID: 34

Type: **not specified**

# **Measurements of photon exit angles of Wavelength-Shifting Optical Modules used in a large-area liquid-scintillator detector**

*Friday 2 September 2022 14:15 (20 minutes)*

**Presenter:** REHBEIN, Florian

**Session Classification:** 5D Calorimetry



Contribution ID: 35

Type: **not specified**

## **Spray coating of the liquid scintillator cells with UV-reflective acrylic paint**

*Friday 2 September 2022 14:35 (15 minutes)*

**Presenter:** DEUCHER, Patrick

**Session Classification:** 5D Calorimetry

Contribution ID: 36

Type: **not specified**

## **Results with a first fibre-structured plastic scintillator prototype**

*Friday 2 September 2022 14:50 (25 minutes)*

**Presenter:** SKODDA, Ben (Humboldt University of Berlin)

**Session Classification:** 5D Calorimetry

Contribution ID: 37

Type: **not specified**

## **Microscopic effects of gamma-ray irradiation on diodes**

*Monday 5 September 2022 13:00 (20 minutes)*

**Presenter:** LIAO, Chuan (UNI/EXP (Uni Hamburg, Institut für Experimentalphysik))

**Session Classification:** Radiation effects

Contribution ID: 39

Type: **not specified**

## **Radiation Hardness of a Wide Spectral Range SiPM with Quasi-Spherical Implant**

*Monday 5 September 2022 14:40 (20 minutes)*

**Presenter:** ROEMER, Julius (UNI/EXP (Uni Hamburg, Institut für Experimentalphysik))

**Session Classification:** Radiation effects

Contribution ID: 40

Type: **not specified**

## **NIEL (non-ionizing energy loss)**

*Monday 5 September 2022 13:20 (20 minutes)*

**Presenter:** SUBERT, Vendula (Hamburg University (DE))

**Session Classification:** Radiation effects

Contribution ID: 41

Type: **not specified**

## **A fast timing tracking layer for test beam instrumentaiton**

*Friday 2 September 2022 09:50 (20 minutes)*

**Presenter:** VAUTH, Annika (Universität Hamburg)

**Session Classification:** 4D tracking

Contribution ID: 42

Type: **not specified**

## **Report on Progress for Integrated Receiver Electronics**

*Monday 5 September 2022 09:40 (20 minutes)*

**Presenter:** KRYSTOFIAK, Lukas (Juelich Research Centre)

**Session Classification:** Cross-disciplinary activities

Contribution ID: 43

Type: **not specified**

## **LGAD technology for HADES, accelerator and medical applications**

*Friday 2 September 2022 11:45 (20 minutes)*

**Presenters:** ULRICH-PUR, Felix (Institute of high energy physics (HEPHY) Vienna); PIETRASZKO, Jerzy (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

**Session Classification:** 4D tracking



Contribution ID: 44

Type: **not specified**

## **Testbeam and Fe55-characterisation of DPTS, a MAPS prototype produced in 65 nm TPSCo CMOS technology towards ALICE ITS3**

*Friday 2 September 2022 10:45 (20 minutes)*

**Presenter:** MENZEL, Marius (University of Heidelberg, Institute of Physics)

**Session Classification:** 4D tracking

Contribution ID: 45

Type: **not specified**

## **The readout circuitry of Super-ALPIDE and MAPS in embedded in Polyimide**

*Friday 2 September 2022 11:05 (20 minutes)*

**Presenter:** YUNCU, alperen (Ruprecht Karls Universitaet Heidelberg (DE))

**Session Classification:** 4D tracking

Contribution ID: 46

Type: **not specified**

## **Efficiency and spatial resolution of bent Monolithic Active Pixel Sensors measured with a 5.4 GeV electron beam**

*Friday 2 September 2022 11:25 (20 minutes)*

**Presenter:** BLIDARU, Bogdan (Heidelberg University)

**Session Classification:** 4D tracking

Contribution ID: 48

Type: **not specified**

## Results from Single Event Effect Tests with MIMOSIS-1

*Monday 5 September 2022 14:20 (20 minutes)*

**Presenter:** DEVEAUX, Michael (GSI Helmholtzzentrum für Schwerionenforschung GmbH, Darmstadt, Germany)

**Session Classification:** Radiation effects

Contribution ID: 49

Type: **not specified**

## **Characterization of different scintillators for future calorimetry**

*Monday 5 September 2022 10:00 (20 minutes)*

**Presenter:** DORMENEV, Valerii (Justus-Liebig-Universitaet Giessen (DE))

**Session Classification:** Cross-disciplinary activities

Contribution ID: 50

Type: **not specified**

## **Wavelength-shifter coated polystyrene as a low-cost plastic scintillator detector**

*Monday 5 September 2022 10:20 (20 minutes)*

**Presenter:** JIMENO, Doramas (Universitat de Barcelona/HU Berlin)

**Session Classification:** Cross-disciplinary activities

Contribution ID: 52

Type: **not specified**

## Tracking performance of MIMOSIS-1

*Friday 2 September 2022 10:10 (20 minutes)*

**Presenter:** Dr WINTER, Marc

**Session Classification:** 4D tracking

Contribution ID: 53

Type: **not specified**

## Software Compensation Using Machine Learning for AHCAL

*Monday 5 September 2022 11:00 (30 minutes)*

**Presenters:** ROLPH, Jack Christopher Hutchinson (UNI/EXP (Uni Hamburg, Institut für Experimentalphysik)); ROLPH, Jack (University of Hamburg)

**Session Classification:** Cross-disciplinary activities



Contribution ID: 54

Type: **not specified**

## **Hamburg Penta-Trap Model for radiation damage in silicon**

*Monday 5 September 2022 13:40 (20 minutes)*

**Presenter:** SCHWANDT, Joern (UNI/EXP (Uni Hamburg, Institut für Experimentalphysik))

**Session Classification:** Radiation effects