

Hyper-K ND280++ workshop 2nd

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction and status of ND280++

Session Classification: Detector R&D and Simulation

Contribution ID: 2

Type: **not specified**

Impact of systematics on the sensitivity on the oscillation parameters

Session Classification: Detector R&D and Simulation

Contribution ID: 3

Type: **not specified**

Complementarity of ND280 and ND280++ with IWCD

Session Classification: Detector R&D and Simulation

Contribution ID: 4

Type: **not specified**

Status of ND280 data analysis and findings

Session Classification: Detector R&D and Simulation

Contribution ID: 5

Type: **not specified**

Coffee break

Session Classification: Detector R&D and Simulation

Contribution ID: 6

Type: **not specified**

Glued cubes scintillator detector

Session Classification: Detector R&D and Simulation

Contribution ID: 7

Type: **not specified**

Water-based liquid scintillator detector

Friday 6 June 2025 11:00 (20 minutes)

Presenters: LI, Botao (ETHZ - ETH Zurich); LI, Botao (ETH Zurich (CH))

Session Classification: Detector R&D and Simulation

Contribution ID: 8

Type: **not specified**

Inactive water detector

Friday 6 June 2025 10:40 (20 minutes)

Presenter: BERNs, Lukas (Tohoku University)

Session Classification: Detector R&D and Simulation

Contribution ID: 9

Type: **not specified**

Scintillating fibers and light readout system

Friday 6 June 2025 11:40 (20 minutes)

Presenter: DIEMINGER, Till Conrad (ETH Zurich (CH))

Session Classification: Detector R&D and Simulation

Contribution ID: **10**

Type: **not specified**

New Time Projection Chambers

Friday 6 June 2025 13:00 (20 minutes)

Presenter: EURIN, Guillaume (CEA/IRFU/DPhP)

Session Classification: Detector R&D and Simulation

Contribution ID: **11**

Type: **not specified**

The PLATON detector concept

Friday 6 June 2025 14:05 (15 minutes)

Presenter: DIEMINGER, Till Conrad (ETH Zurich (CH))

Session Classification: Detector R&D and simulations

Contribution ID: 12

Type: **not specified**

An Opaque liquid scintillator detector

Friday 6 June 2025 13:50 (15 minutes)

Presenters: MILLER, Ewan (IFAE); MILLER, Ewan William (University of London (GB))

Session Classification: Detector R&D and simulations

Contribution ID: **13**

Type: **not specified**

Production of multi-tonne SuperFGD: glued cubes and additive manufacturing

Friday 6 June 2025 13:35 (15 minutes)

Presenters: LI, Botao (ETHZ - ETH Zurich); LI, Botao (ETH Zurich (CH))

Session Classification: Detector R&D and simulations

Contribution ID: **14**

Type: **not specified**

Introduction to ND280++

Friday 6 June 2025 09:00 (10 minutes)

Presenter: SGALABERNA, Davide (ETH Zurich (CH))

Session Classification: Introduction

Contribution ID: 15

Type: **not specified**

Sensitivity to oscillation parameters

Friday 6 June 2025 09:30 (20 minutes)

Presenter: DALMAZZONE, Claire (Centre National de la Recherche Scientifique (FR))

Session Classification: Introduction

Contribution ID: **16**

Type: **not specified**

Modelling of neutrino-nucleus cross section

Friday 6 June 2025 09:10 (20 minutes)

Presenter: Prof. SANCHEZ, Federico (Universite de Geneve (CH))

Session Classification: Introduction

Contribution ID: 17

Type: **not specified**

Status of ND280 data analysis and findings

Session Classification: Introduction

Contribution ID: **18**

Type: **not specified**

ND280++ software and simulation

Session Classification: Detector R&D and Simulation

Contribution ID: **19**

Type: **not specified**

Performance studies of ND280++ reference design

Session Classification: Detector R&D and Simulation

Contribution ID: **20**

Type: **not specified**

Discussion on ND280++ design

Friday 6 June 2025 15:30 (30 minutes)

Session Classification: Next plans and discussions

Contribution ID: **21**

Type: **not specified**

Group organization

Session Classification: Next plans and discussions

Contribution ID: 22

Type: **not specified**

ND280++ prototype

Friday 6 June 2025 14:20 (20 minutes)

Presenters: KIKAWA, Tatsuya (Kyoto University); KIKAWA, Tatsuya (Kyoto University)

Session Classification: Next plans and discussions

Contribution ID: 23

Type: **not specified**

Complementarity between ND280++ and IWCD

Friday 6 June 2025 09:50 (20 minutes)

Presenter: HARTZ, Mark Patrick (TRIUMF (CA))

Session Classification: Introduction

Contribution ID: 24

Type: **not specified**

3D printed plastic scintillator

Presenters: LI, Botao (ETHZ - ETH Zurich); LI, Botao (ETH Zurich (CH))

Session Classification: Detector R&D and simulations

Contribution ID: 25

Type: **not specified**

Read out electronics at KEK

Friday 6 June 2025 11:20 (20 minutes)

Presenters: KIKAWA, Tatsuya (Kyoto University); KIKAWA, Tatsuya (Kyoto University)

Session Classification: Detector R&D and Simulation

Contribution ID: 26

Type: **not specified**

Discussion about alternative detectors

Session Classification: Detector R&D and simulations

Contribution ID: 27

Type: **not specified**

ND280++ simulation

Friday 6 June 2025 14:40 (15 minutes)

Presenter: MILLER, Ewan (IFAE)

Session Classification: Next plans and discussions

Contribution ID: 28

Type: **not specified**

ND280++ performance studies

Friday 6 June 2025 14:55 (20 minutes)

Presenter: LACHNER, Katharina (ETH Zurich (CH))

Session Classification: Next plans and discussions

Contribution ID: 29

Type: **not specified**

Discussion on ND280++ design

Session Classification: Next plans and discussions

Contribution ID: **30**

Type: **not specified**

ECAL refurbishment

Friday 6 June 2025 13:20 (15 minutes)

Presenter: SANDFORD, Ellen (The University of Liverpool)

Session Classification: Detector R&D and Simulation

Contribution ID: **31**

Type: **not specified**

Free nucleon measurements with ND280++

Friday 6 June 2025 15:15 (15 minutes)

Presenter: Dr WRET, Clarence (Imperial College (GB))

Session Classification: Next plans and discussions