

**2nd International Workshop
on Forward Physics and
Forward Calorimeter Upgrade
in ALICE**

Report of Contributions

Contribution ID: 1

Type: **not specified**

ALICE FoCal physics

Presenter: PEITZMANN, Thomas (Nikhef National institute for subatomic physics (NL))

Session Classification: Forward Physics (1)

Contribution ID: 2

Type: **not specified**

Welcome and Introduction

Presenter: CHUJO, Tatsuya (University of Tsukuba (JP))

Session Classification: Forward Physics (1)

Contribution ID: 3

Type: **not specified**

RHICf: Very forward particle measurement at RHIC

Monday 13 March 2023 10:40 (30 minutes)

Presenter: KIM, Minho (RIKEN)

Session Classification: Forward Physics (1)

Contribution ID: 4

Type: **not specified**

LHCf : Very forward particle measurement at LHC

Monday 13 March 2023 10:10 (30 minutes)

Presenters: MENJO, Hiroaki (Nagoya University (JP)); MENJO, Hiroaki (Nagoya University (JP))

Session Classification: Forward Physics (1)

Contribution ID: 5

Type: **not specified**

FoCal test beam results

Presenter: ISIDORI, Tommaso (The University of Kansas (US))

Session Classification: Forward Physics (2)

Contribution ID: 6

Type: **not specified**

UPC physics potential

Monday 13 March 2023 11:30 (30 minutes)

Presenter: Prof. TAPIA TAKAKI, Daniel (University of Kansas)

Session Classification: Forward Physics (2)

Contribution ID: 7

Type: **not specified**

Core-corona picture, forward PID in Heavy ion collisions

Presenter: HIRANO, Tetsufumi

Session Classification: Theory

Contribution ID: 8

Type: **not specified**

CGC and di-jet

Presenter: FUJII, Hirotsugu (University of Tokyo)

Session Classification: Theory

Contribution ID: 9

Type: **not specified**

TBA

Presenter: WATANABE, Kazuhiro (Seikei University)

Session Classification: Theory

Contribution ID: **10**

Type: **not specified**

Physics with high-intensity electromagnetic fields

Monday 13 March 2023 15:50 (30 minutes)

Presenter: HOMMA, Kensuke (Hiroshima University)

Session Classification: Strong fields

Contribution ID: 11

Type: **not specified**

Strong color/ E field (theory)

Session Classification: Strong fields

Contribution ID: 12

Type: **not specified**

Phenomena induced by vorticity and magnetic field in heavy-ion collisions

Monday 13 March 2023 16:20 (30 minutes)

Presenter: NIIDA, Takafumi

Session Classification: Strong fields

Contribution ID: 13

Type: **not specified**

FASER

Presenter: OTONO, Hidetoshi (Kyushu University (JP))

Session Classification: Strong fields

Contribution ID: 14

Type: **not specified**

FoCal TDR

Presenter: JACOBS, Peter Martin (Lawrence Berkeley National Lab. (US))

Session Classification: FoCal (1)

Contribution ID: 15

Type: **not specified**

FoCal-E pad in Japan

Tuesday 14 March 2023 09:30 (30 minutes)

Presenter: INABA, Motoi (University of Tsukuba (JP))

Session Classification: FoCal (1)

Contribution ID: 16

Type: **not specified**

FoCal-E pad in India

Tuesday 14 March 2023 10:00 (30 minutes)

Presenter: Dr MUHURI, Sanjib (Department of Atomic Energy (IN))

Session Classification: FoCal (1)

Contribution ID: 17

Type: **not specified**

FoCal-E pixel

Session Classification: FoCal (1)

Contribution ID: **18**

Type: **not specified**

FoCal-E pixel

Tuesday 14 March 2023 10:50 (30 minutes)

Presenter: ROEHRICH, Dieter (University of Bergen (NO))

Session Classification: FoCal (2)

Contribution ID: **19**

Type: **not specified**

FoCal-H

Tuesday 14 March 2023 11:20 (30 minutes)

Presenter: Prof. BEARDEN, Ian Gardner (University of Copenhagen (DK))

Session Classification: FoCal (2)

Contribution ID: 20

Type: **not specified**

Test beam results on FoCal-E pad

Tuesday 14 March 2023 13:00 (30 minutes)

Presenter: KIM, Minho (RIKEN)

Session Classification: FoCal (3)

Contribution ID: 21

Type: **not specified**

FoCal Mechanical design, cooling and integration

Tuesday 14 March 2023 13:30 (30 minutes)

Presenter: VAN DEN BRINK, Ton (Nikhef National institute for subatomic physics (NL))

Session Classification: FoCal (3)

Contribution ID: 22

Type: **not specified**

New version of Mini-FoCal with HGCROC

Tuesday 14 March 2023 14:00 (20 minutes)

Presenters: CHUJO, Tatsuya (University of Tsukuba (JP)); VAN DEN BRINK, Ton (Nikhef National institute for subatomic physics (NL))

Session Classification: FoCal (3)

Contribution ID: 23

Type: **not specified**

ALICE 3 (+ FoCal+)

Presenter: VAN LEEUWEN, Marco (Nikhef National institute for subatomic physics (NL))

Session Classification: Future projects, medical applications

Contribution ID: 24

Type: **not specified**

EIC (w/ ZDC)

Presenter: GOTO, Yuji (RIKEN (JP))

Session Classification: Future projects, medical applications

Contribution ID: 25

Type: **not specified**

ILC, ECal

Presenter: SUEHARA, Taikan (Kyushu University)

Session Classification: Future projects, medical applications

Contribution ID: 26

Type: **not specified**

Proton CT

Presenter: ROEHRICH, Dieter (University of Bergen (NO))

Session Classification: Future projects, medical applications

Contribution ID: 27

Type: **not specified**

ePICAL

Presenter: PEITZMANN, Thomas (Nikhef National institute for subatomic physics (NL))

Session Classification: Future projects, medical applications

Contribution ID: 28

Type: **not specified**

FoCal readout and trigger

Presenter: OYAMA, Ken (Nagasaki Inst. of Applied Science (JP))

Session Classification: Focal electronics

Contribution ID: 29

Type: **not specified**

HGCROC v3

Presenter: Dr DE LA TAILLE, Christophe (OMEGA (FR))

Session Classification: Focal electronics

Contribution ID: **30**

Type: **not specified**

HGCROC calibration

Presenter: LOBANOV, Artur (Hamburg University (DE))

Session Classification: Focal electronics

Contribution ID: 31

Type: **not specified**

ECon/DCon (TBC)

Presenter: GHIMOUZ, Abderrahmane (University of Tsukuba (JP))

Session Classification: Focal electronics

Contribution ID: 32

Type: **not specified**

FoCal-H readout (TBC)

Presenter: NOVITZKY, Norbert (Oak Ridge National Laboratory - (US))

Session Classification: Focal electronics

Contribution ID: 33

Type: **not specified**

HGCROC chip test bench

Presenter: FUSAYASU, Takahiro (Saga University (JP))

Session Classification: Focal electronics

Contribution ID: **34**

Type: **not specified**

FPGA (TBC)

Presenter: OSANA

Session Classification: Focal electronics

Contribution ID: 35

Type: **not specified**

Discussion

Presenter: ALL

Session Classification: Focal electronics

Contribution ID: **36**

Type: **not specified**

Workshop Dinner

Monday 13 March 2023 18:30 (2 hours)

Contribution ID: 37

Type: **not specified**

Registration

Monday 13 March 2023 09:00 (30 minutes)

Contribution ID: **38**

Type: **not specified**

ALICE FoCal

Monday 13 March 2023 09:40 (30 minutes)

Presenter: ISIDORI, Tommaso (The University of Kansas (US))

Session Classification: Forward Physics (1)

Contribution ID: 39

Type: **not specified**

Forward dijet correlation and parton saturation

Monday 13 March 2023 12:00 (30 minutes)

Presenter: FUJII, Hirotugu (University of Tokyo)

Session Classification: Forward Physics (2)

Contribution ID: 40

Type: **not specified**

Introduction

Presenter: CHUJO, Tatsuya (University of Tsukuba (JP))

Contribution ID: 41

Type: **not specified**

Welcome

Monday 13 March 2023 09:30 (10 minutes)

Presenter: CHUJO, Tatsuya (University of Tsukuba (JP))

Contribution ID: 42

Type: **not specified**

Proton CT

Wednesday 15 March 2023 09:30 (30 minutes)

Presenter: ROEHRICH, Dieter (University of Bergen (NO))

Session Classification: Medical Applications

Contribution ID: 43

Type: **not specified**

R&D on truly high-granularity calorimetry with EPICAL-2

Wednesday 15 March 2023 10:00 (30 minutes)

Presenter: PEITZMANN, Thomas (Nikhef National institute for subatomic physics (NL))

Session Classification: Medical Applications

Contribution ID: 44

Type: **not specified**

Dynamics of high energy nuclear collisions from core-corona picture

Monday 13 March 2023 14:00 (30 minutes)

Presenter: HIRANO, Tetsufumi

Session Classification: Forward Physics (3)

Contribution ID: 45

Type: **not specified**

Nuclear suppression of forward heavy flavor production from fully coherent energy loss

Monday 13 March 2023 15:00 (30 minutes)

Presenter: WATANABE, Kazuhiro (Seikei University)

Session Classification: Forward Physics (3)

Contribution ID: 46

Type: **not specified**

FASER: Forward Search Experiment at the LHC

Monday 13 March 2023 14:30 (30 minutes)

Presenter: OTONO, Hidetoshi (Kyushu University (JP))

Session Classification: Forward Physics (3)

Contribution ID: 47

Type: **not specified**

ALICE 3: a next-generation heavy-ion program for LHC

Wednesday 15 March 2023 10:50 (30 minutes)

Presenter: VAN LEEUWEN, Marco (Nikhef National institute for subatomic physics (NL))

Session Classification: Future Projects

Contribution ID: 48

Type: **not specified**

EIC and ZDC

Wednesday 15 March 2023 11:20 (30 minutes)

Presenter: GOTO, Yuji (RIKEN (JP))

Session Classification: Future Projects

Contribution ID: 49

Type: **not specified**

High granular calorimetry for Higgs factories

Wednesday 15 March 2023 11:50 (30 minutes)

Presenters: SUEHARA, Taikan (Kyushu University (JP)); SUEHARA, Taikan (Kyushu University)

Session Classification: Future Projects

Contribution ID: **50**

Type: **not specified**

Closing

Wednesday 15 March 2023 12:20 (10 minutes)

Contribution ID: 51

Type: **not specified**

Test beam results at ELPH 2023

Session Classification: FoCal (3)

Contribution ID: 52

Type: **not specified**

HGCROC calibration and operation for CMS HGCal

Tuesday 14 March 2023 17:10 (30 minutes)

Presenters: LOBANOV, Artur (Hamburg University (DE)); LIU, Geliang (Centre National de la Recherche Scientifique (FR))

Session Classification: HGCROC

Contribution ID: 53

Type: **not specified**

Discussion on HGCROC

Session Classification: FoCal (4)

Contribution ID: 54

Type: **not specified**

HGCROC3 design and performance

Tuesday 14 March 2023 16:40 (30 minutes)

Presenter: Dr DE LA TAILLE, Christophe (OMEGA (FR))

Session Classification: HGCROC

Contribution ID: 55

Type: **not specified**

FoCal readout and trigger

Tuesday 14 March 2023 14:40 (30 minutes)

Presenter: OYAMA, Ken (Nagasaki Inst. of Applied Science (JP))

Session Classification: FoCal (4)

Contribution ID: 56

Type: **not specified**

HGROC chip test

Tuesday 14 March 2023 15:40 (20 minutes)

Presenter: FUSAYASU, Takahiro (Saga University (JP))

Session Classification: FoCal (4)

Contribution ID: 57

Type: **not specified**

Implementation of ALICE TPC clustering algorithm on an Alveo accelerator card: a feasibility study

Tuesday 14 March 2023 15:10 (30 minutes)

Presenter: OSANA, Yasunori

Session Classification: FoCal (4)

Contribution ID: 58

Type: **not specified**

Discussion on FoCal electronics

Session Classification: FoCal Electronics (2)

Contribution ID: 59

Type: **not specified**

Search for non-linear QCD evolution: FoCal and the EIC

Monday 13 March 2023 13:30 (30 minutes)

Presenter: JACOBS, Peter Martin (Lawrence Berkeley National Lab. (US))

Session Classification: Forward Physics (3)

Contribution ID: 60

Type: **not specified**

Irradiation test of the PIN structured sensors fabricated by ETRI

Tuesday 14 March 2023 16:00 (20 minutes)

Presenter: KWON, Youngil (Yonsei University (KR))

Session Classification: FoCal (4)