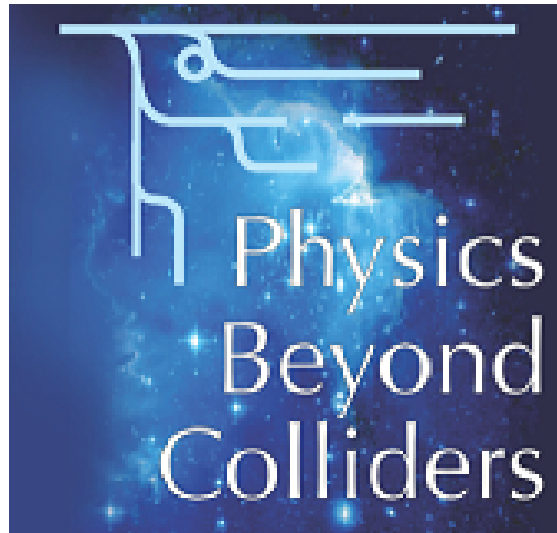


Physics Beyond Colliders Annual Workshop



Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction and scope of the workshop

Monday, 7 November 2022 09:15 (15 minutes)

Presenter: VALLEE, Claude (Centre de Physique des Particules de Marseille)

Contribution ID: 2

Type: **not specified**

Status of the Proposals: HIKE

Monday, 7 November 2022 09:35 (20 minutes)

Presenter: LAZZERONI, Cristina (University of Birmingham (GB))

Session Classification: ECN3

Contribution ID: 3

Type: **not specified**

Status of the Proposals: SHADOWS

Monday, 7 November 2022 10:05 (20 minutes)

Presenter: LANFRANCHI, Gaia (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: ECN3

Contribution ID: 4

Type: **not specified**

Status of the Proposals: SHiP@ECN3

Monday, 7 November 2022 11:05 (20 minutes)

Presenter: LACKER, Heiko Markus (Humboldt University of Berlin (DE))

Session Classification: ECN3

Contribution ID: 5

Type: **not specified**

Status of the Proposals: TauFV

Monday, 7 November 2022 11:35 (15 minutes)

Presenter: SHCHUTSKA, Lesya (EPFL - Ecole Polytechnique Federale Lausanne (CH))

Session Classification: ECN3

Contribution ID: 6

Type: **not specified**

Physics reach: preliminary analysis

Monday, 7 November 2022 12:00 (20 minutes)

Presenter: KAHLHOEFER, Felix (Karlsruhe Institute of Technology)

Session Classification: ECN3

Contribution ID: 7

Type: **not specified**

Experimental considerations: preliminary analysis

Presenter: REMBSER, Christoph (CERN)

Session Classification: ECN3

Contribution ID: 8

Type: **not specified**

Preliminary findings of the PBC Task Force on ECN3 beam delivery and related infrastructure/consolidation scenarios for post-LS3 operation

Monday, 7 November 2022 14:30 (20 minutes)

Presenters: BRUGGER, Markus (CERN); FRASER, Matthew Alexander (CERN)

Session Classification: ECN3

Contribution ID: 9

Type: **not specified**

Experiment specific configuration in TCC8/ECN3 - Status and outlook: HIKE/SHADOWS

Monday, 7 November 2022 15:00 (20 minutes)

Presenter: BERNHARD, Johannes (CERN)

Session Classification: ECN3

Contribution ID: **10**

Type: **not specified**

Experiment specific configuration in TCC8/ECN3 - Status and outlook: BDF/SHiP

Monday, 7 November 2022 15:30 (20 minutes)

Presenter: AHDIDA, Claudia

Session Classification: ECN3

Contribution ID: 11

Type: **not specified**

Implications for North Area Consolidation: preliminary

Monday, 7 November 2022 16:30 (15 minutes)

Presenter: KADI, Yacine (CERN)

Session Classification: ECN3

Contribution ID: 12

Type: **not specified**

Discussion on open questions and further steps

Monday, 7 November 2022 16:55 (30 minutes)

Session Classification: ECN3

Contribution ID: 13

Type: **not specified**

Forward Physics Facility @ LHC: preliminary design

Tuesday, 8 November 2022 09:00 (20 minutes)

Presenter: BOYD, Jamie (CERN)

Session Classification: LHC

Contribution ID: 14

Type: **not specified**

Forward Physics Facility @ LHC: physics reach

Tuesday, 8 November 2022 09:30 (15 minutes)

Presenter: FENG, Jonathan Lee (University of California Irvine (US))

Session Classification: LHC

Contribution ID: 15

Type: **not specified**

FIP physics at Large Angle (Codex-B/ANUBIS/MATHUSLA, etc.)

Tuesday, 8 November 2022 10:10 (20 minutes)

Presenter: ALIMENA, Juliette (DESY)

Session Classification: LHC

Contribution ID: 16

Type: **not specified**

First beam-gas events in LHCb using SMOG2

Tuesday, 8 November 2022 11:10 (15 minutes)

Presenter: PAPPALARDO, Luciano Libero (Universita e INFN, Ferrara (IT))

Session Classification: LHC

Contribution ID: 17

Type: **not specified**

ALICE-FT

Tuesday, 8 November 2022 11:30 (15 minutes)

Presenters: KIKOLA, Daniel; KIKOLA, Daniel (Warsaw University of Technology (PL))

Session Classification: LHC

Contribution ID: **18**

Type: **not specified**

Double-crystal fixed target physics

Tuesday, 8 November 2022 11:50 (15 minutes)

Presenter: NERI, Nicola (Università degli Studi e INFN Milano (IT))

Session Classification: LHC

Contribution ID: 19

Type: **not specified**

Towards an LHC test stand for crystal assisted fixed-target experiments

Tuesday, 8 November 2022 12:10 (20 minutes)

Presenter: HERMES, Pascal (CERN)

Session Classification: LHC

Contribution ID: 20

Type: **not specified**

Status of the Proposals: NA60++

Tuesday, 8 November 2022 14:00 (20 minutes)

Presenter: USAI, Gianluca (Universita e INFN, Cagliari (IT))

Session Classification: NA-Ions

Contribution ID: 21

Type: **not specified**

Status of the Proposals: NA61++

Tuesday, 8 November 2022 14:30 (20 minutes)

Presenter: MACKOWIAK-PAWLOWSKA, Maja Katarzyna (Warsaw University of Technology (PL))

Session Classification: NA-Ions

Contribution ID: 22

Type: **not specified**

Physics reach: preliminary analysis

Tuesday, 8 November 2022 15:00 (20 minutes)

Presenter: PAWLOWSKI, Jan M.

Session Classification: NA-Ions

Contribution ID: 23

Type: **not specified**

Implications for the Accelerator complex

Tuesday, 8 November 2022 16:00 (20 minutes)

Presenter: ALEMANY FERNANDEZ, Reyes (CERN)

Session Classification: NA-Ions

Contribution ID: 24

Type: **not specified**

Discussion on open questions and further steps

Tuesday, 8 November 2022 16:30 (20 minutes)

Session Classification: NA-Ions

Contribution ID: 25

Type: **not specified**

AMBER Phase-2: physics and status of the proposal

Tuesday, 8 November 2022 16:50 (15 minutes)

Presenter: FRIEDRICH, Jan (Technische Universitaet Muenchen (DE))

Session Classification: Other Post-LS3/NA

Contribution ID: 26

Type: **not specified**

RF Separated beams: status

Tuesday, 8 November 2022 17:10 (15 minutes)

Presenter: Mr METZGER, Fabian (CERN; HISKP, University of Bonn (DE))

Session Classification: Other Post-LS3/NA

Contribution ID: 27

Type: **not specified**

NA64++

Tuesday, 8 November 2022 17:30 (15 minutes)

Presenter: KIRPICHNIKOV, Dmitrii (Russian Academy of Sciences (RU))

Session Classification: Other Post-LS3/NA

Contribution ID: 28

Type: **not specified**

ENUBET & NuTag status

Tuesday, 8 November 2022 17:50 (15 minutes)

Presenter: CHARITONIDIS, Nikolaos (CERN)

Session Classification: Other Post-LS3/NA

Contribution ID: 29

Type: **not specified**

Gamma Factory SPS Proof of Principle: status

Wednesday, 9 November 2022 09:00 (20 minutes)

Presenter: DUTHEIL, Yann (CERN)

Session Classification: Unconventional Facilities

Contribution ID: **30**

Type: **not specified**

cpEDM: status of the studies and collaboration

Wednesday, 9 November 2022 09:30 (15 minutes)

Presenters: RATHMANN, Frank (Forschungszentrum Jülich); RATHMANN, Frank (Forschungszentrum Jülich GmbH (KFA)-Unknown-Unknown)

Session Classification: Unconventional Facilities

Contribution ID: 31

Type: **not specified**

Technologies available at CERN to support new experiments/ideas (outcome of TECH workshops)

Wednesday, 9 November 2022 10:20 (20 minutes)

Presenter: CALATRONI, Sergio (CERN)

Session Classification: Non-accelerator Experiments

Contribution ID: 32

Type: **not specified**

AION-100@CERN: conceptual design study status and prospects

Wednesday, 9 November 2022 10:50 (20 minutes)

Presenter: ELLIS, Jonathan R. (University of London (GB))

Session Classification: Non-accelerator Experiments

Contribution ID: 33

Type: **not specified**

VMB@CERN status and plans

Wednesday, 9 November 2022 11:20 (15 minutes)

Presenter: ZAVATTINI, Guido (Universita e INFN, Ferrara (IT))

Session Classification: Non-accelerator Experiments

Contribution ID: 34

Type: **not specified**

HTS RF cavities for axion searches & RADES update

Wednesday, 9 November 2022 11:40 (15 minutes)

Presenter: GOLM, Jessica (CERN)

Session Classification: Non-accelerator Experiments

Contribution ID: 35

Type: **not specified**

Axion searches: Heterodyne Detection

Wednesday, 9 November 2022 12:00 (15 minutes)

Presenter: ELLIS, Sebastian (SLAC National Accelerator Laboratory (US))

Session Classification: Non-accelerator Experiments

Contribution ID: 36

Type: **not specified**

General FPC report and Highlights from the FIPs 2022 Workshop

Wednesday, 9 November 2022 14:00 (30 minutes)

Presenter: POSPELOV, Maxim

Session Classification: General Overview

Contribution ID: 37

Type: **not specified**

Highlights from the FIPs 2022 Workshop

Presenter: LANFRANCHI, Gaia (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: General Overview

Contribution ID: **38**

Type: **not specified**

Highlights from Snowmass (for PBC related subjects)

Presenter: SCHUSTER, Philip

Session Classification: General Overview

Contribution ID: 39

Type: **not specified**

Muon Collider Test Facility - Synergies with PBC

Wednesday, 9 November 2022 14:45 (15 minutes)

Presenter: SCHULTE, Daniel (CERN)

Session Classification: New Ideas

Contribution ID: 40

Type: **not specified**

Status of the CERN Quantum Initiative

Wednesday, 9 November 2022 15:05 (15 minutes)

Presenter: DOSER, Michael (CERN)

Session Classification: New Ideas

Contribution ID: 41

Type: **not specified**

Gamma Factory driven subcritical reactor

Wednesday, 9 November 2022 15:25 (15 minutes)

Presenter: KRASNY, Mieczyslaw Witold (LPNHE, Sorbonne University, Paris, Centre National de la Recherche Scientifique (FR) and CERN)

Session Classification: New Ideas

Contribution ID: 42

Type: **not specified**

Wrap-up and closing remarks

Wednesday, 9 November 2022 16:15 (20 minutes)

Presenters: VALLEE, Claude (Centre de Physique des Particules de Marseille); ARDUINI, Gianluigi (CERN); JAECKEL, Joerg (ITP Heidelberg)

Session Classification: Closing

Contribution ID: 43

Type: **not specified**

Discussion

Wednesday, 9 November 2022 16:35 (30 minutes)

Session Classification: Closing

Contribution ID: 44

Type: **not specified**

FLArE conceptual design

Tuesday, 8 November 2022 09:50 (15 minutes)

Presenter: MILIND, Diwan (BNL)

Session Classification: LHC

Contribution ID: 45

Type: **not specified**

Welcome address

Monday, 7 November 2022 09:00 (15 minutes)

Presenter: MNICH, Joachim Josef (CERN)

Contribution ID: 46

Type: **not specified**

Lunch and CHANGE OF ROOM - Main Auditorium