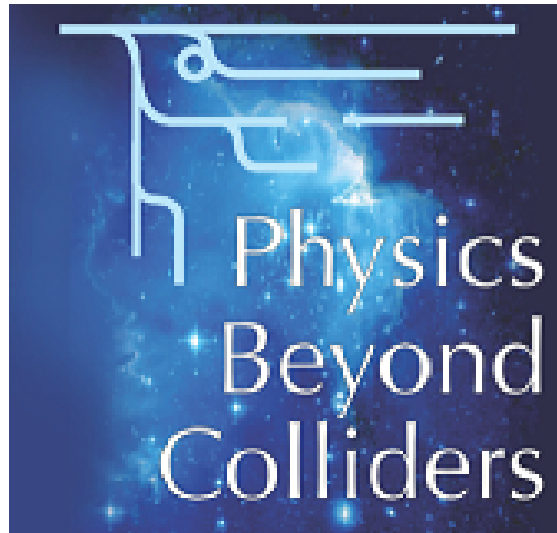


# **Physics Beyond Colliders Annual Workshop**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Introduction and scope of the workshop**

*Monday, November 7, 2022 9:15 AM (15 minutes)*

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

Contribution ID: 2

Type: **not specified**

## Status of the Proposals: HIKE

*Monday, November 7, 2022 9:35 AM (20 minutes)*

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

**Session Classification:** ECN3

Contribution ID: 3

Type: **not specified**

## Status of the Proposals: SHADOWS

*Monday, November 7, 2022 10:05 AM (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, November 7, 2022 11:05 AM (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, November 7, 2022 11:35 AM (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, November 7, 2022 12:00 PM (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, November 7, 2022 2:30 PM (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, November 7, 2022 3:00 PM (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, November 7, 2022 3:30 PM (20 minutes)*

**Presenter:** AHDIDA, Claudia

**Session Classification:** ECN3

Contribution ID: 11

Type: **not specified**

## **Implications for North Area Consolidation: preliminary**

*Monday, November 7, 2022 4:30 PM (15 minutes)*

**Presenter:** KADI, Yacine (CERN)

**Session Classification:** ECN3

Contribution ID: 12

Type: **not specified**

## **Discussion on open questions and further steps**

*Monday, November 7, 2022 4:55 PM (30 minutes)*

**Session Classification:** ECN3

Contribution ID: 13

Type: **not specified**

## **Forward Physics Facility @ LHC: preliminary design**

*Tuesday, November 8, 2022 9:00 AM (20 minutes)*

**Presenter:** BOYD, Jamie (CERN)

**Session Classification:** LHC

Contribution ID: 14

Type: **not specified**

## **Forward Physics Facility @ LHC: physics reach**

*Tuesday, November 8, 2022 9:30 AM (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, November 8, 2022 10:10 AM (20 minutes)*

**Presenter:** ALIMENA, Juliette (DESY)

**Session Classification:** LHC



Contribution ID: 16

Type: **not specified**

## **First beam-gas events in LHCb using SMOG2**

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

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

**Session Classification:** LHC

Contribution ID: 17

Type: **not specified**

## ALICE-FT

*Tuesday, November 8, 2022 11:30 AM (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, November 8, 2022 11:50 AM (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, November 8, 2022 12:10 PM (20 minutes)*

**Presenter:** HERMES, Pascal (CERN)

**Session Classification:** LHC

Contribution ID: 20

Type: **not specified**

## Status of the Proposals: NA60++

*Tuesday, November 8, 2022 2:00 PM (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, November 8, 2022 2:30 PM (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, November 8, 2022 3:00 PM (20 minutes)*

**Presenter:** PAWLOWSKI, Jan M.

**Session Classification:** NA-Ions

Contribution ID: 23

Type: **not specified**

## **Implications for the Accelerator complex**

*Tuesday, November 8, 2022 4:00 PM (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, November 8, 2022 4:30 PM (20 minutes)*

**Session Classification:** NA-Ions

Contribution ID: 25

Type: **not specified**

## **AMBER Phase-2: physics and status of the proposal**

*Tuesday, November 8, 2022 4:50 PM (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, November 8, 2022 5:10 PM (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, November 8, 2022 5:30 PM (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, November 8, 2022 5:50 PM (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, November 9, 2022 9:00 AM (20 minutes)*

**Presenter:** DUTHEIL, Yann (CERN)

**Session Classification:** Unconventional Facilities

Contribution ID: **30**

Type: **not specified**

## **cpEDM: status of the studies and collaboration**

*Wednesday, November 9, 2022 9:30 AM (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, November 9, 2022 10:20 AM (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, November 9, 2022 10:50 AM (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, November 9, 2022 11:20 AM (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, November 9, 2022 11:40 AM (15 minutes)*

**Presenter:** GOLM, Jessica (CERN)

**Session Classification:** Non-accelerator Experiments

Contribution ID: 35

Type: **not specified**

## **Axion searches: Heterodyne Detection**

*Wednesday, November 9, 2022 12:00 PM (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, November 9, 2022 2:00 PM (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, November 9, 2022 2:45 PM (15 minutes)*

**Presenter:** SCHULTE, Daniel (CERN)

**Session Classification:** New Ideas



Contribution ID: 40

Type: **not specified**

## Status of the CERN Quantum Initiative

*Wednesday, November 9, 2022 3:05 PM (15 minutes)*

**Presenter:** DOSER, Michael (CERN)

**Session Classification:** New Ideas

Contribution ID: 41

Type: **not specified**

## **Gamma Factory driven subcritical reactor**

*Wednesday, November 9, 2022 3:25 PM (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, November 9, 2022 4:15 PM (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, November 9, 2022 4:35 PM (30 minutes)*

**Session Classification:** Closing

Contribution ID: 44

Type: **not specified**

## FLArE conceptual design

*Tuesday, November 8, 2022 9:50 AM (15 minutes)*

**Presenter:** MILIND, Diwan (BNL)

**Session Classification:** LHC

Contribution ID: 45

Type: **not specified**

## Welcome address

*Monday, November 7, 2022 9:00 AM (15 minutes)*

**Presenter:** MNICH, Joachim Josef (CERN)

Contribution ID: 46

Type: **not specified**

## **Lunch and CHANGE OF ROOM - Main Auditorium**