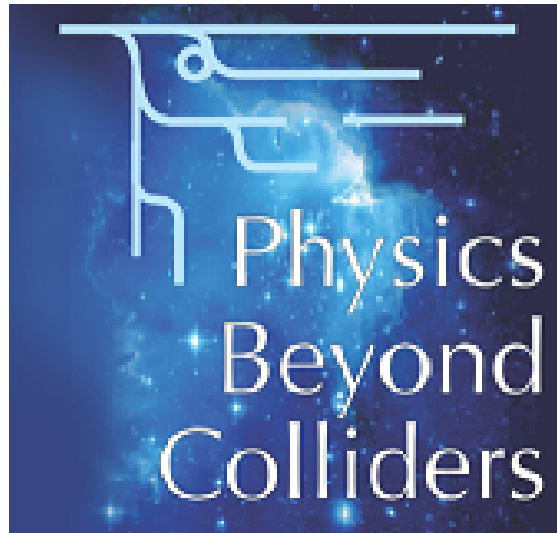


Physics Beyond Colliders Annual Workshop



Report of Contributions

Contribution ID: 1

Type: **not specified**

PBC reloaded: EPPSU recommendations and updated PBC mandate

Monday, March 1, 2021 1:35 PM (15 minutes)

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

Session Classification: Introduction: EPPSU recommendations and updated PBC mandate

Contribution ID: 2

Type: **not specified**

The physics of feebly-interacting particles in the new PBC activities

Monday, March 1, 2021 2:00 PM (20 minutes)

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

Session Classification: Introduction: EPPSU recommendations and updated PBC mandate

Contribution ID: 3

Type: **not specified**

NA61 long-term plans

Monday, March 1, 2021 2:25 PM (15 minutes)

Presenter: KUICH, Magdalena (University of Warsaw (PL))

Session Classification: QCD

Contribution ID: 4

Type: **not specified**

MUonE

Monday, March 1, 2021 2:45 PM (15 minutes)

Presenter: ABBIENDI, Giovanni (Universita e INFN, Bologna (IT))

Session Classification: QCD

Contribution ID: 5

Type: **not specified**

COMPASS++/AMBER long-term plans

Monday, March 1, 2021 3:05 PM (15 minutes)

Presenter: Dr GUSKOV, Alexey (Joint Institute for Nuclear Research (RU))

Session Classification: QCD

Contribution ID: 6

Type: **not specified**

NA60++

Monday, March 1, 2021 3:25 PM (15 minutes)

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

Session Classification: QCD

Contribution ID: 7

Type: **not specified**

LHC-FT in LHCb (including LHCspin)

Monday, March 1, 2021 5:15 PM (15 minutes)

Presenter: DI NEZZA, Pasquale (INFN e Laboratori Nazionali di Frascati (IT))

Session Classification: QCD

Contribution ID: **8**

Type: **not specified**

LHC-FT in ALICE

Monday, March 1, 2021 5:35 PM (15 minutes)

Presenter: KIKOLA, Daniel (Warsaw University of Technology (PL))

Session Classification: QCD

Contribution ID: 9

Type: **not specified**

Proof of Principle Experiment at the SPS

Monday, March 1, 2021 4:15 PM (15 minutes)

Presenter: MARTENS, Aurelien (Université Paris-Saclay (FR))

Session Classification: Gamma Factory

Contribution ID: **10**

Type: **not specified**

Probing new Physics with Gamma Factory - ALP searches

Monday, March 1, 2021 4:35 PM (15 minutes)

Presenter: BALKIN, Reuven (Technion)

Session Classification: Gamma Factory

Contribution ID: 11

Type: **not specified**

The Gamma Factory source of high intensity, flavour and CP tagged neutrinos

Monday, March 1, 2021 4:55 PM (15 minutes)

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

Session Classification: Gamma Factory

Contribution ID: 12

Type: **not specified**

AION project

Tuesday, March 2, 2021 1:30 PM (15 minutes)

Presenter: BUCHMULLER, Oliver (Imperial College (GB))

Session Classification: Quantum sensors

Contribution ID: 13

Type: **not specified**

Overview of the potential at AD

Tuesday, March 2, 2021 1:50 PM (20 minutes)

Presenter: Dr ULMER, Stefan (RIKEN (JP))

Session Classification: Quantum sensors

Contribution ID: 14

Type: **not specified**

BASE sensitivity to DM

Tuesday, March 2, 2021 2:15 PM (15 minutes)

Presenter: DEVLIN, Jack (CERN)

Session Classification: Quantum sensors

Contribution ID: 15

Type: **not specified**

CERN Quantum initiative overview, focused on quantum sensors

Tuesday, March 2, 2021 2:35 PM (15 minutes)

Presenter: DOSER, Michael (CERN)

Session Classification: Quantum sensors

Contribution ID: 16

Type: **not specified**

Quantum Sensor for Fundamental Physics

Tuesday, March 2, 2021 2:55 PM (15 minutes)

Presenter: BOWCOCK, Themis (University of Liverpool (GB))

Session Classification: Quantum sensors

Contribution ID: 17

Type: **not specified**

Dark matter and quantum sensing @ Snowmass

Tuesday, March 2, 2021 3:15 PM (20 minutes)

Presenter: WINSLOW, Lindley

Session Classification: Quantum sensors

Contribution ID: **18**

Type: **not specified**

SHiP next steps

Tuesday, March 2, 2021 4:10 PM (15 minutes)

Presenter: GOLUTVIN, Andrei (Imperial College London)

Session Classification: BSM

Contribution ID: 19

Type: **not specified**

TauFV progress and plans

Tuesday, March 2, 2021 4:30 PM (5 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Session Classification: BSM

Contribution ID: 20

Type: **not specified**

NA62/KLEVER prospects for future high-I K⁺ and K⁰ running, including beam dump

Tuesday, March 2, 2021 4:40 PM (20 minutes)

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

Session Classification: BSM

Contribution ID: 21

Type: **not specified**

NA64 progress and plans

Tuesday, March 2, 2021 5:05 PM (15 minutes)

Presenter: GNINENKO, Sergei (Russian Academy of Sciences (RU))

Session Classification: BSM

Contribution ID: 22

Type: **not specified**

IAXO/BabyIAXO

Tuesday, March 2, 2021 5:25 PM (15 minutes)

Presenter: GARCIA IRASTORZA, Igor (Universidad de Zaragoza (ES))

Session Classification: BSM

Contribution ID: 23

Type: **not specified**

VMB@CERN

Tuesday, March 2, 2021 5:45 PM (15 minutes)

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

Session Classification: BSM

Contribution ID: 24

Type: **not specified**

BDF R&D in coming years

Wednesday, March 3, 2021 1:30 PM (20 minutes)

Presenter: FRASER, Matthew (CERN)

Session Classification: Accelerator Studies

Contribution ID: 25

Type: **not specified**

Prototype Ring Facility for charged-particle EDM search

Wednesday, March 3, 2021 1:55 PM (15 minutes)

Presenter: RATHMANN, Frank (Forschungszentrum Jülich)

Session Classification: Accelerator Studies

Contribution ID: 26

Type: **not specified**

Conventional beam studies: muon beam in EHN2, RF-separated hadrons, K⁺ and K⁰ beams

Wednesday, March 3, 2021 2:15 PM (20 minutes)

Presenter: GERBERSHAGEN, Alexander (CERN)

Session Classification: Accelerator Studies

Contribution ID: 27

Type: **not specified**

LHC Fixed target: developments and plans

Wednesday, March 3, 2021 2:40 PM (20 minutes)

Presenter: FERRO-LUZZI, Massimiliano (CERN)

Session Classification: Accelerator Studies

Contribution ID: 28

Type: **not specified**

Technology WG: progress and new initiatives

Wednesday, March 3, 2021 3:05 PM (20 minutes)

Presenter: DOBRICH, Babette (CERN)

Session Classification: Accelerator Studies

Contribution ID: 29

Type: **not specified**

AWAKE Phase-II preparation and prospects for high energy electron beams

Wednesday, March 3, 2021 3:30 PM (15 minutes)

Presenter: GSCHWENDTNER, Edda (CERN)

Session Classification: Accelerator Studies

Contribution ID: **30**

Type: **not specified**

Forward Physics Facility at LHC

Wednesday, March 3, 2021 4:20 PM (20 minutes)

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

Session Classification: Forward Physics Facility@ LHC

Contribution ID: **31**

Type: **not specified**

Forward Physics Facility civil engineering studies

Wednesday, March 3, 2021 4:45 PM (15 minutes)

Presenter: OSBORNE, John Andrew (CERN)

Session Classification: Forward Physics Facility@ LHC

Contribution ID: 32

Type: **not specified**

SND@LHC

Wednesday, March 3, 2021 5:05 PM (15 minutes)

Presenter: DE LELLIS, Giovanni (Universita e sezione INFN di Napoli (IT))

Session Classification: Long Lived Particles Searches @ LHC

Contribution ID: 33

Type: **not specified**

MILLIQAN

Wednesday, March 3, 2021 5:25 PM (10 minutes)

Presenter: CITRON, Matthew (Univ. of California Santa Barbara (US))

Session Classification: Long Lived Particles Searches @ LHC

Contribution ID: **34**

Type: **not specified**

MATHUSLA

Wednesday, March 3, 2021 5:40 PM (10 minutes)

Presenter: MORVAJ, Ljiljana (CERN)

Session Classification: Long Lived Particles Searches @ LHC

Contribution ID: 35

Type: **not specified**

ANUBIS

Wednesday, March 3, 2021 5:55 PM (10 minutes)

Presenter: AIELLI, Giulio (INFN e Universita Roma Tor Vergata (IT))

Session Classification: Long Lived Particles Searches @ LHC

Contribution ID: 36

Type: **not specified**

CODEX-b

Wednesday, March 3, 2021 6:10 PM (10 minutes)

Presenter: BEACHAM, James (Duke University (US))

Session Classification: Long Lived Particles Searches @ LHC

Contribution ID: 37

Type: **not specified**

Small Scale Experiments @Snowmass

Thursday, March 4, 2021 4:10 PM (20 minutes)

Presenter: PETROV, Alexey (Wayne State University)

Session Classification: New Ideas

Contribution ID: **38**

Type: **not specified**

Axion search with heterodyne detection

Thursday, March 4, 2021 1:30 PM (10 minutes)

Presenter: D'AGNOLO, Raffaele

Session Classification: New Ideas

Contribution ID: **39**

Type: **not specified**

ENUBET and synergies with NUSTORM

Thursday, March 4, 2021 1:45 PM (20 minutes)

Presenter: TERRANOVA, Francesco (Universita & INFN, Milano-Bicocca (IT))

Session Classification: New Ideas

Contribution ID: 40

Type: **not specified**

π -decay tagged ν_μ beam (NUTAG)

Thursday, March 4, 2021 2:10 PM (15 minutes)

Presenter: PERRIN-TERRIN, Mathieu (Aix Marseille Univ, CNRS/IN2P3, CPPM, Marseille, France)

Session Classification: New Ideas

Contribution ID: 41

Type: **not specified**

Quark and Lepton Flavor @ Snowmass

Thursday, March 4, 2021 4:35 PM (20 minutes)

Presenter: ECHENARD, Bertrand (California Institute of Technology)

Session Classification: New Ideas

Contribution ID: 42

Type: **not specified**

SHADOWS

Thursday, March 4, 2021 2:30 PM (20 minutes)

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

Session Classification: New Ideas

Contribution ID: 43

Type: **not specified**

Outlook Session

Thursday, March 4, 2021 5:00 PM (1 hour)

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

Session Classification: Closing Session

Contribution ID: 44

Type: **not specified**

True muonium in fixed target experiments at the current and future CERN facilities

Thursday, March 4, 2021 2:55 PM (15 minutes)

Presenter: CRIVELLI, Paolo (ETH Zurich (CH))

Session Classification: New Ideas

Contribution ID: 45

Type: **not specified**

Progress towards the charm baryon dipole moments with bent crystals

Monday, March 1, 2021 5:55 PM (15 minutes)

Presenter: MARTINEZ VIDAL, Fernando (IFIC - University of Valencia and CSIC (ES))

Session Classification: QCD

Contribution ID: 46

Type: **not specified**

Precision studies and searches for New Physics at ISOLDE

Thursday, March 4, 2021 3:15 PM (20 minutes)

Presenter: KOWALSKA, Magdalena (CERN)

Session Classification: New Ideas

Contribution ID: 47

Type: **not specified**

Welcome - CERN Director for Research

Monday, March 1, 2021 1:30 PM (5 minutes)

Presenter: MNICH, Joachim (CERN)