

**3rd Townhall Meeting High
Gradient Accelerator
Plasma/Laser**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Introduction

Monday 31 May 2021 09:00 (5 minutes)

Presenters: GSCHWENDTNER, Edda (CERN); ASSMANN, Ralph Wolfgang (DESY)

Contribution ID: 2

Type: **not specified**

Close-Out

Monday 31 May 2021 17:45 (15 minutes)

Contribution ID: 3

Type: **not specified**

High gradient acceleration at the CLARA Test Facility

Monday 31 May 2021 09:10 (10 minutes)

Presenter: SNEDDEN, Edward

Session Classification: Facilities

Contribution ID: 5

Type: **not specified**

Particle Physics possibilities with AWAKE-like technology

Monday 31 May 2021 09:25 (10 minutes)

Presenter: CALDWELL, Allen (Max-Planck-Institut für Physik (DE))

Session Classification: Facilities

Contribution ID: 6

Type: **not specified**

High quality beam-driven plasma acceleration and FEL

Monday 31 May 2021 09:40 (10 minutes)

Presenter: FERRARIO, massimo (INFN-LNF)

Session Classification: Facilities

Contribution ID: 7

Type: **not specified**

High intensity laser facility for High gradient accelerator development

Monday 31 May 2021 09:55 (10 minutes)

Presenter: PITTMAN, Moana

Session Classification: Facilities

Contribution ID: 8

Type: **not specified**

Preferred machine for testing a laser plasma accelerator at CERN: CERN eSPS

Monday 31 May 2021 10:10 (10 minutes)

Presenter: ROSSMANITH, Robert

Session Classification: Facilities

Contribution ID: 9

Type: **not specified**

CEPC high energy plasma injector and PWFA driven coherent light source based on SXFEL facility

Monday 31 May 2021 11:00 (10 minutes)

Presenter: LU, wei (tsinghua university)

Session Classification: Hybrid Sources

Contribution ID: 10

Type: **not specified**

SRF-based collinear beam-driven acceleration for a future TeV collider

Monday 31 May 2021 11:15 (10 minutes)

Presenter: LEMERY, Francois (Department of Physics-College of Arts and Sciences-University of)

Session Classification: Hybrid Sources

Contribution ID: 11

Type: **not specified**

150 MeV S-Band injector linac with high stability and ultra-short electron bunches

Monday 31 May 2021 11:30 (10 minutes)

Presenter: BURKART, Florian

Session Classification: Hybrid Sources

Contribution ID: 12

Type: **not specified**

Plasma beam dump and its implementation in future colliders

Monday 31 May 2021 11:45 (10 minutes)

Presenter: XIA, guoxing (University of Manchester)

Session Classification: Hybrid Sources

Contribution ID: 13

Type: **not specified**

Plasma photocathode HEP R&D

Monday 31 May 2021 12:00 (10 minutes)

Presenter: HABIB, Fahim

Session Classification: Hybrid Sources

Contribution ID: 14

Type: **not specified**

Plasma target development for PALLAS project

Monday 31 May 2021 12:15 (10 minutes)

Presenter: KUBYTSKYI, Viacheslav (IJCLab)

Session Classification: Hybrid Sources

Contribution ID: 15

Type: **not specified**

AWAKE scalable plasma sources R&D at CERN

Monday 31 May 2021 12:30 (10 minutes)

Presenter: SUBLET, Alban (CERN)

Session Classification: Hybrid Sources

Contribution ID: 16

Type: **not specified**

Discussion

Monday 31 May 2021 10:25 (10 minutes)

Session Classification: Facilities

Contribution ID: 17

Type: **not specified**

Hybrid plasma wakefield accelerators as test-beds for HEP building blocks

Monday 31 May 2021 14:00 (10 minutes)

Presenter: HEINEMANN, Thomas (DESY / University of Strathclyde)

Session Classification: Hybrid Sources

Contribution ID: 18

Type: **not specified**

High peak current electron beam transport and diagnostics

Monday 31 May 2021 14:15 (10 minutes)

Presenter: BRUNI, Christelle

Session Classification: Hybrid Sources

Contribution ID: 19

Type: **not specified**

High repetition rate laser-plasma acceleration

Monday 31 May 2021 14:30 (10 minutes)

Presenter: FAURE, Jerome (CNRS)

Session Classification: Hybrid Sources

Contribution ID: 20

Type: **not specified**

Multi-physics simulations and plasma accelerators

Monday 31 May 2021 14:45 (10 minutes)

Presenter: THEVENET, Maxence (DESY)

Session Classification: Simulations

Contribution ID: 21

Type: **not specified**

The importance of software engineering for PIC simulations

Monday 31 May 2021 15:00 (10 minutes)

Presenter: BECK, Arnaud

Session Classification: Simulations

Contribution ID: 22

Type: **not specified**

OSIRIS 2030: Strategy for future plasma-based acceleration modeling

Monday 31 May 2021 15:15 (10 minutes)

Presenter: FONSECA, Ricardo (Instituto Superior Técnico)

Session Classification: Simulations

Contribution ID: 23

Type: **not specified**

Open-source simulation ecosystem for laptop to Exascale modeling of high-gradient accelerators

Monday 31 May 2021 15:30 (10 minutes)

Presenter: VAY, Jean-Luc (Lawrence Berkeley National Laboratory)

Session Classification: Simulations

Contribution ID: 24

Type: **not specified**

**Studying of Combined Mode of Wakefield
Acceleration, High Accelerating Gradient Obtaining
and also Plateau Formation on the Distribution of an
Accelerating Wakefield and Zero Radial Wake Force
by Very Short Electron Bunch, Self-injected and
Accelerated in a Metallic-Density Electron Plasma by
Laser Pulse, Shaped on Radius, Length and Intensity**

Monday 31 May 2021 16:00 (10 minutes)

Presenter: BONDAR, Denys

Session Classification: Positrons, DLA

Contribution ID: 25

Type: **not specified**

Plasma-based positron sources R&D: current status and next steps

Monday 31 May 2021 16:15 (10 minutes)

Presenter: SARRI, Gianluca (Queen's University Belfast)

Session Classification: Positrons, DLA

Contribution ID: 26

Type: **not specified**

CW collinear hollow-core scheme for Dielectric Laser Accelerators (DLAs)

Monday 31 May 2021 16:30 (10 minutes)

Presenter: TORRISI, Giuseppe (INFN - National Institute for Nuclear Physics)

Session Classification: Positrons, DLA

Contribution ID: 27

Type: **not specified**

Dielectric Structures as Diagnostics and Beam Manipulation Devices

Monday 31 May 2021 16:45 (10 minutes)

Presenters: MAYET, Frank; KUROPKA, Willi

Session Classification: Positrons, DLA

Contribution ID: 28

Type: **not specified**

Structure-Based Laser-Driven Accelerators

Monday 31 May 2021 17:00 (10 minutes)

Presenter: ENGLAND, Joel (Stanford)

Session Classification: Positrons, DLA

Contribution ID: 29

Type: **not specified**

Dielectric wave guide for short electron beam acceleration and compression at THz frequencies

Monday 31 May 2021 17:15 (10 minutes)

Presenter: MARTINET, Guillaume (IPN Orsay)

Session Classification: Positrons, DLA

Contribution ID: **30**

Type: **not specified**

mm-wave and THz acceleration

Monday 31 May 2021 17:30 (10 minutes)

Presenter: JAMISON, Steven Patrick (STFC)

Session Classification: Positrons, DLA