

ALEGRO WORKSHOP 2019

CERN 26-29 March



Report of Contributions

Contribution ID: 8

Type: **not specified**

Introduction to the ALEGRO Workshop

Tuesday, 26 March 2019 09:15 (15 minutes)

Presenters: CROS, Brigitte (LPGP CNRS); SCHULTE, Daniel (CERN); GSCHWENDTNER, Edda (CERN); MUGGLI, Patric (Max Planck Institute for Physics)

Contribution ID: 9

Type: **not specified**

Coffee Break

Tuesday, 26 March 2019 10:30 (30 minutes)

Talk ... Talk ... Talk ...

Contribution ID: **10**

Type: **not specified**

Lunch

Tuesday, 26 March 2019 12:15 (1h 15m)

Contribution ID: **11**

Type: **not specified**

Coffee Break

Tuesday, 26 March 2019 15:30 (30 minutes)

Talk ... Talk .. Talk ...

Contribution ID: 12

Type: **not specified**

Coffee Break

Wednesday, 27 March 2019 10:40 (20 minutes)

Talk ... Talk ... Talk ...

Contribution ID: **13**

Type: **not specified**

Lunch

Wednesday, 27 March 2019 12:00 (1h 30m)

Contribution ID: **14**

Type: **not specified**

Coffee Break

Wednesday, 27 March 2019 15:30 (30 minutes)

Talk .. Talk ... Talk ...

Contribution ID: 15

Type: **not specified**

Coffee Break

Thursday, 28 March 2019 10:40 (30 minutes)

Talk ... Talk ... Talk ...

Contribution ID: **16**

Type: **not specified**

Lunch

Thursday, 28 March 2019 12:10 (1h 20m)

Contribution ID: 17

Type: **not specified**

Coffee Break

Thursday, 28 March 2019 15:30 (30 minutes)

Talk ... Talk ... Talk ...

Contribution ID: **18**

Type: **not specified**

Coffee Break

Friday, 29 March 2019 10:30 (30 minutes)

Contribution ID: **19**

Type: **not specified**

Closing

Friday, 29 March 2019 12:45 (15 minutes)

Contribution ID: 20

Type: **not specified**

ALEGRO's report for the European Strategy for Particle Physics

Tuesday, 26 March 2019 09:30 (20 minutes)

Presenter: CROS, Brigitte (LPGP CNRS)

Session Classification: Physics Case and Detector

Contribution ID: 21

Type: **not specified**

Physics Case for ALIC

Tuesday, 26 March 2019 09:55 (20 minutes)

Presenter: ROLOFF, Philipp (CERN)

Session Classification: Physics Case and Detector

Contribution ID: 22

Type: **not specified**

Physics Case for an e/p Collider

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

Session Classification: Physics Case and Detector

Contribution ID: 23

Type: **not specified**

Physics Beyond Collider Process at CERN

Presenter: LAMONT, Mike (CERN)

Session Classification: Physics Cases and Detectors

Contribution ID: 24

Type: **not specified**

Particle Detector for ALIC

Presenter: LINSSEN, Lucie (CERN)

Session Classification: Physics Cases and Detectors

Contribution ID: 25

Type: **not specified**

Long Plasma Channel for LWFA

Tuesday, 26 March 2019 13:55 (20 minutes)

Presenter: HOOKER, Simon (University of Oxford)

Session Classification: Accelerating Structures

Contribution ID: 26

Type: **not specified**

Long Plasma Source for Proton-Driven PWFA

Tuesday, 26 March 2019 13:30 (20 minutes)

Presenter: GRULKE, Olaf (MPI for Plasma Physics)

Session Classification: Accelerating Structures

Contribution ID: 27

Type: **not specified**

High-Repetition Rate Plasma Source

Tuesday, 26 March 2019 14:20 (20 minutes)

Presenter: Dr SCHAPER, Lucas (DESY)

Session Classification: Accelerating Structures

Contribution ID: 28

Type: **not specified**

Metamaterial Metallic Structure as Power Extractor and Colinear Accelerating structure

Tuesday, 26 March 2019 14:45 (20 minutes)

Presenter: POWER, John

Session Classification: Accelerating Structures

Contribution ID: 29

Type: **not specified**

Dielectric Accelerating Structures

Session Classification: Accelerating Structures

Contribution ID: **30**

Type: **not specified**

ALIC Plans at SPARC_LAB

Wednesday, 27 March 2019 13:50 (15 minutes)

Presenter: VACCAREZZA, Cristina (INFN LNF)

Session Classification: Facilities

Contribution ID: 31

Type: **not specified**

ALIC Plans at FLASH»

Wednesday, 27 March 2019 14:10 (15 minutes)

Presenter: Dr D'ARCY, Richard (DESY)

Session Classification: Facilities

Contribution ID: **32**

Type: **not specified**

ALIC Plans at FACET II

Wednesday, 27 March 2019 16:00 (15 minutes)

Presenter: HOGAN, Mark (SLAC)

Session Classification: Facilities

Contribution ID: 33

Type: **not specified**

e/p Collider Plans at AWAKE

Wednesday, 27 March 2019 13:30 (15 minutes)

Presenter: GSCHWENDTNER, Edda (CERN)

Session Classification: Facilities

Contribution ID: 34

Type: **not specified**

ALIC Plans at eSPS

Wednesday, 27 March 2019 14:30 (15 minutes)

Presenter: STAPNES, Steinar (CERN)

Session Classification: Facilities

Contribution ID: 35

Type: **not specified**

ALIC Plans at CLEAR

Wednesday, 27 March 2019 14:50 (15 minutes)

Presenter: CORSINI, Roberto (CERN)

Session Classification: Facilities

Contribution ID: 36

Type: **not specified**

ALIC Plans at BELLA

Wednesday, 27 March 2019 16:20 (15 minutes)

Presenter: Dr BENEDETTI, Carlo (LBNL)

Session Classification: Facilities

Contribution ID: 37

Type: **not specified**

ALIC Plans at CoReLS

Wednesday, 27 March 2019 16:40 (15 minutes)

Presenter: Prof. HEGELICH, Bjorn Manuel (Corel)

Session Classification: Facilities

Contribution ID: **38**

Type: **not specified**

Discussion

Wednesday, 27 March 2019 17:20 (20 minutes)

Session Classification: Facilities

Contribution ID: 39

Type: **not specified**

Reliable Laser Operation

Wednesday, 27 March 2019 09:00 (20 minutes)

Presenter: MAIER, Andreas (Universität Hamburg)

Session Classification: Drivers/Witnesses

Contribution ID: 40

Type: **not specified**

Electron beam Driver for the PWFA

Wednesday, 27 March 2019 09:50 (20 minutes)

Presenter: CORSINI, Roberto (CERN)

Session Classification: Drivers/Witnesses

Contribution ID: 41

Type: **not specified**

High-Average Power Laser for LWFA

Wednesday, 27 March 2019 09:25 (20 minutes)

Presenter: Dr LINK, Emily (LLNL)

Session Classification: Drivers/Witnesses

Contribution ID: 42

Type: **not specified**

High-Quality LWFA-Based Electron Sources

Wednesday, 27 March 2019 11:25 (20 minutes)

Presenter: COUPERUS CABADAĞ, Jurjen

Session Classification: Drivers/Witnesses

Contribution ID: 43

Type: **not specified**

Transverse Dynamics in CLIC Structures

Thursday, 28 March 2019 09:00 (20 minutes)

Presenter: SCHULTE, Daniel (CERN)

Session Classification: Beam Dynamics

Contribution ID: 44

Type: **not specified**

Transverse Wakefields in PWFAs

Thursday, 28 March 2019 09:25 (20 minutes)

Presenter: CHEN, Jian Bin Ben (University of Oslo (NO))

Session Classification: Beam Dynamics

Contribution ID: 45

Type: **not specified**

Tolerances for the LWFA

Thursday, 28 March 2019 10:15 (20 minutes)

Presenter: Dr MAXENCE, Thevenet (LBNL)

Session Classification: Beam Dynamics

Contribution ID: 46

Type: **not specified**

Crystals for Final Focus Systems

Presenter: TOMAS GARCIA, Rogelio (CERN)

Session Classification: Beam Dynamics

Contribution ID: 47

Type: **not specified**

Plasma lens for Collider Beams

Thursday, 28 March 2019 13:30 (20 minutes)

Presenter: LINDSTROM, Carl Andreas

Session Classification: Beam Dynamics

Contribution ID: 48

Type: **not specified**

Plasm lens for Laser Beams

Thursday, 28 March 2019 13:55 (20 minutes)

Presenter: GORDON, Daniel (U.S. Naval Research Laboratory)

Session Classification: Beam Dynamics

Contribution ID: 49

Type: **not specified**

Simulations of Staging Experiments at Apollon

Thursday, 28 March 2019 14:20 (20 minutes)

Presenter: MASSIMO, Francesco (Laboratoire Leprince-Ringuet, École Polytechnique)

Session Classification: Beam Dynamics

Contribution ID: 50

Type: **not specified**

Staging Experiments at BELLA

Thursday, 28 March 2019 14:45 (20 minutes)

Presenter: Dr BENEDETTI, Carlo (LBNL)

Session Classification: Beam Dynamics

Contribution ID: 51

Type: **not specified**

EuPRAXIA Machine Design

Thursday, 28 March 2019 16:00 (20 minutes)

Presenter: Dr PANOFSKI, Eva (DESY)

Session Classification: Machine Design

Contribution ID: 52

Type: **not specified**

Positron Bunches in Plasma

Friday, 29 March 2019 09:00 (20 minutes)

Presenter: CORDE, Sebastien

Session Classification: Positrons in Plasmas

Contribution ID: 53

Type: **not specified**

Practical Challenges with Positron Sources

Friday, 29 March 2019 09:25 (20 minutes)

Presenter: DOEBERT, Steffen (CERN)

Session Classification: Positrons in Plasmas

Contribution ID: 54

Type: **not specified**

Overview of Simulations for Laser-Driven Positron Sources

Friday, 29 March 2019 09:50 (20 minutes)

Presenter: Dr VRANIC, Marija (IST)

Session Classification: Positrons in Plasmas

Contribution ID: 55

Type: **not specified**

Simulations for EuPRAXIA accelerator design

Thursday, 28 March 2019 16:25 (20 minutes)

Presenter: NGHIEM, Phi

Session Classification: Machine Design

Contribution ID: 56

Type: **not specified**

Simulations of electron and positron polarization preservation in plasma

Thursday, 28 March 2019 11:10 (20 minutes)

Presenter: THOMAS, Johannes (University of Düsseldorf)

Session Classification: Beam Dynamics

Contribution ID: 57

Type: **not specified**

Experimental plan for staging experiments at Apollon/CILEX

Tuesday, 26 March 2019 16:00 (20 minutes)

Presenter: CHANCE, Antoine (CEA Irfu)

Session Classification: Accelerating Structures

Contribution ID: 58

Type: **not specified**

Plans on transverse wakefields measurements at FACET II

Thursday, 28 March 2019 09:50 (20 minutes)

Presenter: HOGAN, Mark (SLAC)

Session Classification: Beam Dynamics

Contribution ID: 59

Type: **not specified**

PWFA in hollow channel with plasma filament

Tuesday, 26 March 2019 16:25 (20 minutes)

Presenter: PUKHOV, Alexander (University of Dusseldorf)

Session Classification: Accelerating Structures

Contribution ID: 60

Type: **not specified**

Long Plasma Channel Formation and Electron Acceleration up to GeV Energy

Presenter: KUMAR, Pawan (Jawaharlal Nehru University)

Session Classification: Accelerating Structures

Contribution ID: 63

Type: **not specified**

Collider related activities in Asia

Presenter: Dr LU, Wei (Tsinghua University)

Session Classification: Facilities

Contribution ID: **64**

Type: **not specified**

Physics beyond Collider Process at CERN

Wednesday, 27 March 2019 15:10 (15 minutes)

Presenter: LAMONT, Mike (CERN)

Session Classification: Facilities

Contribution ID: 65

Type: **not specified**

Welcome by F. Bordry, CERN's Director for Accelerators and Technology

Presenter: BORDRY, Frederick (CERN)

Session Classification: Physics Case and Detector

Contribution ID: **66**

Type: **not specified**

Introduction

Presenter: MUGGLI, Patric (Max Planck Institute for Physics)

Session Classification: Physics Case and Detector

Contribution ID: 67

Type: **not specified**

Welcome by Eckhard Elsen, CERN's Director for Research and Computing

Tuesday, 26 March 2019 09:00 (15 minutes)

Presenter: ELSEN, Eckhard (CERN)

Contribution ID: **68**

Type: **not specified**

Physics case for an e/p collider

Tuesday, 26 March 2019 11:00 (20 minutes)

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

Session Classification: Physics Cases and Detectors

Contribution ID: **69**

Type: **not specified**

Limitations on linear collider Final Focus systems

Tuesday, 26 March 2019 11:25 (20 minutes)

Presenter: TOMAS GARCIA, Rogelio (CERN)

Session Classification: Physics Cases and Detectors

Contribution ID: 70

Type: **not specified**

Advanced collider activities in Asia

Tuesday, 26 March 2019 11:50 (20 minutes)

Presenter: Dr LU, Wei (Tsinghua University)

Session Classification: Physics Cases and Detectors

Contribution ID: 71

Type: **not specified**

Alternative accelerating structure for CLIC main linac based on dielectrics

Wednesday, 27 March 2019 11:00 (20 minutes)

Presenter: Dr WEI, Yelong (CERN)

Session Classification: Drivers/Witnesses

Contribution ID: 72

Type: **not specified**

Crystal focusing-based final focus for a collider

Thursday, 28 March 2019 11:35 (20 minutes)

Presenter: CILENTO, Vera (Université Paris-Saclay (FR))

Session Classification: Beam Dynamics

Contribution ID: 73

Type: **not specified**

Particle detector for ALIC

Thursday, 28 March 2019 16:50 (20 minutes)

Presenter: LINSSEN, Lucie (CERN)

Session Classification: Machine Design

Contribution ID: 74

Type: **not specified**

Discussion

Wednesday, 27 March 2019 10:15 (15 minutes)

What is the priority for the next 10 years, what will be available for a 10 GeV collider stage demonstrator?

Session Classification: Drivers/Witnesses

Contribution ID: 75

Type: **not specified**

Dielectric Structures or ALIC

Tuesday, 26 March 2019 15:10 (20 minutes)

Presenter: KANAREYKIN, Alexei (Euclid Techlabs LLC)

Session Classification: Accelerating Structures

Contribution ID: 76

Type: **not specified**

ALIC Plans at BNL-ATF

Wednesday, 27 March 2019 17:00 (15 minutes)

Presenter: PALMER, Mark (BNL)

Session Classification: Facilities