

Science and Applications of Plasma Wakefield Acceleration

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Monday, 16 May 2022 08:45 (15 minutes)

Contribution ID: 2

Type: **not specified**

Introduction

Monday, 16 May 2022 09:00 (5 minutes)

Presenter: MAIER, Andreas

Session Classification: Light Source Application

Contribution ID: 3

Type: **not specified**

X-Ray Free-Electron Lasers: State of the Art and Opportunities for Advanced Particle Accelerators

Monday, 16 May 2022 09:05 (30 minutes)

Presenter: MARINELLI, Agostino

Session Classification: Light Source Application

Contribution ID: 4

Type: **not specified**

Laser Plasma Accelerators: Next Generation X-Ray Light Sources

Monday, 16 May 2022 09:35 (30 minutes)

Presenter: ALBERT, Félicie

Session Classification: Light Source Application

Contribution ID: 5

Type: **not specified**

Discussion

Monday, 16 May 2022 10:05 (25 minutes)

Session Classification: Light Source Application

Contribution ID: 6

Type: **not specified**

Introduction

Monday, 16 May 2022 11:00 (5 minutes)

Presenter: GSCHWENDTNER, Edda

Session Classification: Particle Physics Applications

Contribution ID: 7

Type: **not specified**

HEP Applications of Plasma Wakefield Accelerators

Monday, 16 May 2022 11:05 (30 minutes)

Presenter: HEINEMANN, Beate

Session Classification: Particle Physics Applications

Contribution ID: 8

Type: **not specified**

Applications of Plasma-Wave Acceleration Techniques to Particle Colliders

Monday, 16 May 2022 11:35 (30 minutes)

Presenter: FOSTER, Brian

Session Classification: Particle Physics Applications

Contribution ID: 9

Type: **not specified**

Discussion

Monday, 16 May 2022 12:05 (25 minutes)

Session Classification: Particle Physics Applications

Contribution ID: **10**

Type: **not specified**

Introduction

Monday, 16 May 2022 14:00 (5 minutes)

Presenter: SCHREIBER, Jörg

Session Classification: Health and Industrial Applications

Contribution ID: 11

Type: **not specified**

Laser Plasma Accelerators to Address the Industrial Inspection Market

Monday, 16 May 2022 14:05 (30 minutes)

Presenter: SYLLA, François

Session Classification: Health and Industrial Applications

Contribution ID: 12

Type: **not specified**

Establishing Laser Accelerated Proton Beam Performance for Dose Controlled Irradiation Studies

Monday, 16 May 2022 14:35 (30 minutes)

Presenter: SCHRAMM, Ulrich

Session Classification: Health and Industrial Applications

Contribution ID: **13**

Type: **not specified**

Discussion

Monday, 16 May 2022 15:05 (25 minutes)

Session Classification: Health and Industrial Applications

Contribution ID: **14**

Type: **not specified**

Introduction

Monday, 16 May 2022 16:00 (5 minutes)

Presenter: VAY, Jean-Luc

Session Classification: Simulation / Theory

Contribution ID: 15

Type: **not specified**

Theoretical Basis and Exascale Simula- tions

Monday, 16 May 2022 16:05 (30 minutes)

Presenter: THÉVENET, Maxence

Session Classification: Simulation / Theory

Contribution ID: 16

Type: **not specified**

Laser-Electron Collisions and Laser- Plasma Interaction in QED Regime (Theory and Simulations)

Monday, 16 May 2022 16:35 (30 minutes)

Presenter: VRANIĆ, Marija

Session Classification: Simulation / Theory

Contribution ID: 17

Type: **not specified**

Discussion

Monday, 16 May 2022 17:05 (25 minutes)

Session Classification: Simulation / Theory

Contribution ID: **18**

Type: **not specified**

Introduction

Tuesday, 17 May 2022 09:00 (5 minutes)

Presenter: LIMPERT, Jens

Session Classification: .

Contribution ID: **19**

Type: **not specified**

Ti:Sapphire Lasers as Drivers for Plasma-Based Accelerators

Tuesday, 17 May 2022 09:05 (30 minutes)

Presenter: KARSCH, Stefan

Session Classification: .

Contribution ID: 20

Type: **not specified**

Laser Technology for LWFA

Tuesday, 17 May 2022 09:35 (30 minutes)

Presenter: CORNER, Laura

Session Classification: .

Contribution ID: **21**

Type: **not specified**

Discussion

Tuesday, 17 May 2022 10:05 (25 minutes)

Session Classification: .

Contribution ID: 22

Type: **not specified**

Introduction

Tuesday, 17 May 2022 11:00 (5 minutes)

Presenter: MUGGLI, Patric

Session Classification: .

Contribution ID: 23

Type: **not specified**

Overview of Plasma Technology for Accelerators

Tuesday, 17 May 2022 11:05 (30 minutes)

Presenter: CROS, Brigitte

Session Classification: .

Contribution ID: 24

Type: **not specified**

Optical Guiding of High Intensity Laser Pulses for Laser Wakefield Acceleration

Tuesday, 17 May 2022 11:35 (30 minutes)

Presenter: MILCHBERG, Howard

Session Classification: .

Contribution ID: 25

Type: **not specified**

Discussion

Tuesday, 17 May 2022 12:05 (25 minutes)

Session Classification: .

Contribution ID: 26

Type: **not specified**

Introduction

Wednesday, 18 May 2022 09:00 (5 minutes)

Presenter: JENKO, Frank

Session Classification: Plasma Astrophysics

Contribution ID: 27

Type: **not specified**

Cosmic-Ray Driven Instabilities

Wednesday, 18 May 2022 09:05 (30 minutes)

Presenter: FIUZA, Frederico

Session Classification: Plasma Astrophysics

Contribution ID: 28

Type: **not specified**

The Surprising Effectiveness of Cosmic Ray Acceleration

Wednesday, 18 May 2022 09:35 (30 minutes)

Presenter: BELL, Tony

Session Classification: Plasma Astrophysics

Contribution ID: 29

Type: **not specified**

Discussion

Wednesday, 18 May 2022 10:05 (25 minutes)

Session Classification: Plasma Astrophysics

Contribution ID: **30**

Type: **not specified**

Introduction

Wednesday, 18 May 2022 11:00 (5 minutes)

Presenter: DOWNER, Mike

Session Classification: Diagnostics

Contribution ID: 31

Type: **not specified**

High-Resolution Diagnostics for Plasma-Based Accelerators - a Tool for Detailed Insights into the Interaction

Wednesday, 18 May 2022 11:05 (30 minutes)

Presenter: KALUZA, Malte

Session Classification: Diagnostics

Contribution ID: 32

Type: **not specified**

Electron Beam Diagnostics

Wednesday, 18 May 2022 11:35 (30 minutes)

Presenter: CHIADRONI, Enrica

Session Classification: Diagnostics

Contribution ID: 33

Type: **not specified**

Discussion

Wednesday, 18 May 2022 12:05 (25 minutes)

Session Classification: Diagnostics

Contribution ID: **34**

Type: **not specified**

Introduction

Wednesday, 18 May 2022 14:00 (5 minutes)

Presenter: THÉVENET, Maxence

Session Classification: .

Contribution ID: 35

Type: **not specified**

Overview of Gaussian Processes and Bayesian Optimization for Plasma- Based Accelerators

Wednesday, 18 May 2022 14:05 (30 minutes)

Presenter: LEHE, Remi

Session Classification: .

Contribution ID: 36

Type: **not specified**

Overview of Adaptive Machine Learning Methods: Towards Virtual 6D Phase Space Diagnostics

Wednesday, 18 May 2022 14:35 (30 minutes)

Presenter: SCHEINKER, Alexander

Session Classification: .

Contribution ID: 37

Type: **not specified**

Discussion

Wednesday, 18 May 2022 15:05 (25 minutes)

Session Classification: .