Science and Applications of Plasma Wakefield Acceleration

Report of Contributions

Welcome

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: .