

Session Program

Sep 17 - 23, 2023

6th European Advanced Accelerator Concepts workshop

Plenary session

Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy
La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) - Italy

Mon, September 18

9:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizer: Enrica Chiadroni

9:00 - 9:20 AM

Opening remarks

9:20 - 10:00 AM

Free electron lasers driven by plasma accelerators: status and near-term perspectives

Speaker

Michael Litos

10:00 - 10:40 AM

New ideas for high beam quality from plasmas for FELs

Speaker

Bernhard Hidding

10:40 AM

11:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizer: Kevin Cassou

11:00 - 11:30 AM

Advancement in plasma sources towards high repetition rate operation

Speaker

Dr Aaron Alejo

11:30 AM - 12:00 PM

Modeling a novel laser-driven acceleration scheme using particle-in-cell simulations on exascale-class supercomputers

Speaker

Henri Vincenti

12:00 - 12:30 PM

On the Confluence of Data-Driven Techniques and Laser-Plasma Acceleration

Speaker

Andreas Döpp

12:30 PM

Tue, September 19

9:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizers: James Rosenzweig

9:00 - 9:30 AM **2023 AWAKE Run Results**

Speaker

Edda Gschwendtner

9:30 - 10:00 AM **The EuPRAXIA ESFRI Preparatory Phase**

Speaker

Ralph Assmann

10:00 - 10:30 AM **EuPRAXIA@SPARC_LAB**

Speaker

Alessio Del Dotto

10:30 AM

10:50 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizers: Ralph Assmann, Massimo Ferrario

10:50 - 11:15 AM **EuPRAXIA Second Site Options**

Speaker

Arnd Specka

11:15 - 11:25 AM **View from ELI-Beamlines**

Speaker

Dr Alexander Molodzhentsev

11:25 - 11:35 AM **View on EPAC**

Speaker

Rajeev Pattathil

11:35 - 11:45 AM **View from CNR**

Speakers

Leonida Antonio Gizzi, Dr Leonida Antonio Gizzi

11:45 - 11:55 AM **View on CLPU**

Speakers

Giancarlo Gatti, Giancarlo Gatti

11:55 AM - 12:10 PM **View on Excellence Centers**

Speaker

Massimo Ferrario

12:10 - 12:30 PM **EuPRAXIA Full Implementation: Round Table**

12:30 PM

Wed, September 20

9:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizer: Dr Laura Corner

9:00 - 9:35 AM

Status and recent results of FLASHForward

Speaker

Mr Felipe Peña

9:35 - 10:10 AM

High-quality 1 GeV electron beam with a 50 TW laser

Speaker

Cedric Thaury

10:10 - 10:40 AM

Experimental Demonstration of Laser Guiding and Wakefield Acceleration in a Curved Plasma Channel

Speaker

Min Chen

10:40 AM

11:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizer: Andrea Renato Rossi

11:00 - 11:30 AM

3D structure of microbunched plasma-wakefield-accelerated electron beams inferred by coherent optical transition radiation

Speaker

Dr Maxwell LaBerge

11:30 AM - 12:00 PM

Temperature effects in plasma-based positron acceleration

Speaker

Severin Diederichs

12:00 - 12:30 PM

FACET-II: Status of the first experiments and the road ahead

Speaker

Dr Mark Hogan

12:30 PM

Thu, September 21

9:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizer: Pietro Musumeci

9:00 - 9:35 AM

Probing strong-field QED in beam-plasma collisions

Speaker

Aimé Matheron

9:35 - 10:10 AM

Coherence and superradiance from a plasma-based quasiparticle accelerator

Speaker

Bernardo Malaca

10:10 - 10:40 AM

Accelerator on a chip: Recent results and perspectives for applications

Speaker

Roy Shiloh

10:40 AM

11:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organizer: Alexander Pukhov

11:00 - 11:30 AM

Acceleration of polarized protons from laser-plasmas

Speaker

Dr Lars Reichwein

11:30 AM - 12:00 PM

Ion acceleration activities at ELI NP with the acceleration of more than 100 MeV protons

Speaker

Dr Domenico Doria

12:00 - 12:30 PM

High energy proton acceleration at DRACO-PW and radiobiological applications

Speaker

Josefine Metzkes-Ng

12:30 PM

Fri, September 22

9:20 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organiser: Leonida Antonio Gizzi

9:30 - 10:00 AM

Introduction to the European XFEL

Speaker

Thomas Feuer

10:00 - 10:40 AM

Toward an Inertial Fusion Energy Future: Challenges and Opportunities in Science & Technology

Speaker

Tammy Ma

10:40 AM

11:00 AM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organisers: Alessandro Cianchi, Prof. Alessandro Cianchi

11:00 - 11:30 AM

A hybrid, asymmetric, linear Higgs factory (HALHF)

Speaker

Dr Carl A. Lindstrøm

11:30 AM - 12:00 PM

The plans to prepare for the next European Strategy

Speaker

Rajeev Pattathil

12:00 - 12:30 PM

Advanced Accelerator Concept activities at Snowmass

Speaker

Cameron Geddes

12:30 PM

4:20 PM

Plenary session

Session |

Location: Hotel Hermitage, La Biodola Bay, Isola d'Elba, Italy, La Biodola Bay - 57037 Portoferraio Isola d'Elba (Li) -

Co-organiser: Enrica Chiadroni

4:20 - 5:00 PM

Laser plasma accelerators: then and now through cutting-edge experiments

Speaker

Prof. Victor Malka

5:00 - 5:45 PM

Simon Van der Meer Award

Speaker

Roman Walczak

5:45 - 6:30 PM

Poster Prizes Ceremony and talks

Speaker
Bernhard Holzer

6:30 - 7:00 PM **Closing remarks**

Speaker
Massimo Ferrario

7:00 PM