



ELI Laser-Induced Fusion Kick-off Meeting

28-29 November 2023

The Extreme Light Infrastructure ERIC

Za Radnicí 835, 252 41 Dolní Břežany, Czech Republic

Agenda

Day 1 - Tuesday, 28 November 2023

[Webinar ID: 833 2602 2044](#)

Passcode: 083152

| Time | Agenda Item | Speaker |
|--|--|---|
| 10:00 – 11:00 | Registration and ELI Beamlines Laboratory Tours (GROUP A) | |
| 11:00 – 12:00 | Section I./ Welcome | |
| | Welcome | Allen Weeks ELI ERIC Director General |
| | Introduction to ELI | Andrew Harrison ELI ERIC Director of Science |
| | Introduction to the LIF Initiative | Luca Volpe ELI ERIC Co-ordinator for laser-induced fusion research |
| 12:00 – 13:00 | Lunch Break | |
| 13:00 – 16:00 | Section II. / The laser-fusion landscape: Fusion Energy projects Worldwide | |
| A section dedicated to a first introduction to the status of the European countries and institutions that can be relevant for the future of the LIF in the EU. <i>Moderator: Luca Volpe</i> | | |
| 13:00 | The German Roadmap on IFE state of the art and prospective | Constantin Häfner Fraunhofer-Institut für Lasertechnik ILT |
| 13:25 | Fusion-related laser plasma expertise and interests in the German Helmholtz Association | Ulrich Schramm Helmholtz Zentrum Dresden-Rossendorf |
| 13:50 | US program on laser-driven fusion (including indirect and direct drive schemes) after the NIF ignition shots (what next?) | Riccardo Betti University of Rochester |
| 14:15 | The recommendations of the US FESAC report | Tammy Ma Lawrence Livermore National Laboratory |
| 14:40 – 15:00 | Coffee Break | |

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| 15:00 | Update on European Fusion Program by EURATOM (online) | Fabio Belloni Fusion European Commission Directorate-General for Research & Innovation (online) |
| 15:25 | The France Program in Laser Fusion | Alexis Casner CEA DAM |
| 15:50 | The European laser fusion community | Dimitri Batani University of Bordeaux, CELIA |
| 16:15 – 16:30 | Coffee Break | |
| 16:30 - 18:30 | Section III. / Possible LIF-related Research, Experiments, and Technological Developments at the ELI Facilities and Industrial Commitment | |
| A section dedicated to clarifying the role of Industries in a future power plan for the construction of a laser-fusion reactor. Special focus on the German industries. <i>Moderator: Federico Canova</i> | | |
| | Introduction to ELI commitment to technological development | Federico Canova ELI ERIC |
| | Introduction to ELI Nuclear Physics Facility | Daniel Ursescu ELI NP |
| | Introduction to ELI Beamlines Facility | Daniele Margarone ELI Beamlines |
| | Introduction to ELI ALPS Facility | Subhendu Kahaly ELI ALPS |
| 19:00 | <i>For Invited Participants</i> Bus to Prague city centre | |
| 20:00 | <i>For Invited Participants</i> Dinner | |



Day 2 - Wednesday, 29 November 2023

For the second day a series of round tables will be held with the aim of discussing the main scientific and technical challenges of the laser fusion community and highlighting the possible role of ELI in meeting such challenges, taking account of the needs and implication of the German scientific community and industries in such activities as well as identifying which areas they can be engaged in.

Day 2 - Round table 1 & 3

[Webinar ID: 875 9583 3073](#)

Passcode: 722519

Day 2 - Round table 2 & 4

[Webinar ID: 883 9179 7771](#)

Passcode: 281435

| Time | Agenda Item | Speaker |
|---------------------|--|---------|
| 8:45 – 9:00 | Welcome and Introduction to the Round Table Programme Luca Volpe | |
| 9:00 – 10:30 | Parallel Section I Laser-plasma Physics Inertial Fusion and Applications | |
| | Round table 1 Laser-driven particles and Inertial Confinement Fusion (Conference Hall) Round table 2 ICF related physics such as Extreme state of matter (Dark Room) | |
| 10:30 – 11:00 | Coffee Break | |
| 11:00 – 12:30 | Parallel Section II Laser Technology and Targetry | |
| | Round table 3 Laser technology development for laser fusion (Conference Hall) Round table 4 Targetry technology for laser matter interaction optimization (Dark Room) | |
| 12:30 – 13:30 | Buffet Lunch | |
| 13:30 - 14:30 | Final joint section with open discussion and concluding remarks | |
| 14:30 – 15:30/16:00 | ELI Beamlines Facility Tours (GROUP B) | |