

Workshop

Laser particle accelerators, their applications, and possibilities of experiments in the ELI infrastructure

Place: Sauletekio al. 3, NFTMC, A101

Date: 2023 / 03 / 23

Registration: <http://bit.ly/3ZwtojO>



Program

- 9.00 **ELI ERIC infrastructure for frontier research**
Andrew Harrison, ELI ERIC Science director, Dolní Břežany, Czech Republic
- 9.30 **High-repetition rate laser-plasma acceleration**
Jerome Faure, Laboratoire d'Optique Appliquée, ENSTA/ Ecole Polytechnique/ CNRS, Palaiseau, France
- 10.00 **Recent progress and new developments in nuclear astrophysics**
Konrad Schmidt, Division of Nuclear Physics, Institute of Radiation Physics, Helmholtz-Zentrum Dresden - Rossendorf (HZDR)
- 10.30 **Laser driven electron acceleration and perspective VHEE radiotherapy at ELI Beamlines**
Gabriele Maria Grittani, ELI Beamlines
- 11.00 **Coffee break**
- 11.30 **Radiobiology and clinical research using laser-driven ion beams at ELI Beamlines**
GA Pablo Cirrone, INFN, Italy & ELI Beamlines, Czech Republic
- 12.00 **Novel approaches in radiation oncology with a particular interest in laser-based technologies**
Katalin Hideghéty, President of the Hungarian Society of Clinical Oncology, professor at the Oncology Clinic of the University of Szeged, head of the Radiation Therapy Department, group leader of Biomedical Application Group at ELI ALPS
- 12.30 **ELI ERIC Call for users 2**
Andrew Harrison, ELI ERIC Science director, Dolní Břežany, Czech Republic
- 13.00 **Nozzle design for gas targets**
Vidmantas Tomkus, Department of Laser Technologies, FTMC
- 13.10 **Laser processing of nozzles for gas targets**
Miglė Mackevičiūtė, Department of Laser Technologies, FTMC
- 13.20 **FBPIC simulations of laser wakefield acceleration**
Mahdi Abedi-Varaki, Department of Laser Technologies, FTMC
- 13.30 **Dosimetry Methods in Radiosurgery**
Diana Adlienė, Department of Physics, Kaunas University of Technology
- 13.45 **Spanish Science and Technology in lasers at CLPU**
Giancarlo Gatti, Head of the Scientific División of the Spanish Centre for Pulsed Lasers (CLPU)
- 14.00 **Discussion**
- 14.15 **Lunch**

