

# Workshop

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

Place: Sauletekio al. 3, NFTMC, A101

Date: 2024 / 04 / 05

Registration: <http://bit.ly/4ah7V3z>



### Program

- 9.00 **ELI ERIC infrastructure for frontier research**  
Andrew Harrison, ELI ERIC Science director, Dolní Břežany, Czech Republic
- 9.30 **ELI-NP: Status and Scientific Challenges**  
Victor Malka, ELI NP Science Director, Magurele, Romania
- 10.00 **High power laser development for research infrastructures**  
Leonida A. Gizzi, the Intense Laser Irradiation Laboratory, Istituto di Ottica (INO) - CNR, Pisa, Italy
- 10.30 **Coffee break**
- 11.00 **Recent advances on Laser Plasma Wakefield and its application to VHEE-RT**  
Victor Malka, Weizmann Institute of Science, Israel
- 11.30 **Laser-generated neutrons for applications**  
Karoly Osvay, Szeged University, Hungary
- 12.00 **Laser-driven and proton-boron capture therapy approaches for ultrafast radiobiology**  
Pavel Balha, ELI Beamlines, Czech
- 12.30 **Laser fusion**  
Florian Condamine, ELI Beamlines, Czech
- 13.00 **Lunch**
- 14.00 **ELI ERIC Call for Users 4**  
Andrew Harrison, ELI ERIC Science director, Dolní Břežany, Czech Republic
- 14.15 **Experience working at ELI under User Calls**  
Vidmantas Tomkus, Department of Laser Technologies, FTMC
- 14.30 **FBPIC simulations of laser wakefield acceleration**  
Mahdi Abedi-Varaki, Department of Laser Technologies, FTMC
- 14.45 **The need of ELI in proton and neutron therapy applications**  
Mantas Grigalavičius, VU LTC
- 15.00 **Ultrafast X-ray and XUV pulses from table-top laser sources at Vilnius University Laser Research Center**  
Mikas Vengris, VU LTC
- 15.15 **High-Energy OPCPA Systems**  
Valdas Maslinskas, Light Conversion
- 15.30 **High Intensity lasers for intense applications**  
Justas Varpučianskis, Ekspla
- 15.45 **Discussion**
- 16.00 **Coffee/ end**

