ELI-NP SUMMER SCHOOL 2019

SEPTEMBER 9-13, 2019 /
HOTEL MARA, SINAIA, ROMANIA

eli nuclear physics

Nuclear Physics with High Power Lasers

- High peak power ultrafast lasers
- High-power laser based particle acceleration and applications
- Generation of bright coherent and incoherent gamma and x-ray pulses using short pulse lasers
- Laser-driven nuclear physics
- Physics of dense plasmas and warm dense matter
- Astrophysics and cosmology with high-power lasers
- Novel bio-medical imaging and therapeutic applications
- Nuclear materials imaging, transmutation and management
- Strong-field QED with high-power lasers

In 2019, the year when the Extreme Light Infrastructure - Nuclear Physics (ELI-NP) laser system has reached its design parameters of 10 PW, the ELI-NP Summer School is dedicated to **"Nuclear Physics with High Power Lasers"**.

The School aims at introducing PhD students and young researchers to the novel research perspectives in the physics and applications of high-power lasers, covering the topics on the left.

SCIENTIFIC COMMITTEE: Kazuo A. Tanaka, Călin A. Ur, Mihai Radu, Ioan Dăncuș, Daniel Ursescu, Dan Stutman, Florin Negoiță, Dimiter Balabanski, Ovidiu Tești leanu

elinp_school2019@eli-np.ro
www.eli-np.ro/2019-summer-school/