

1st ELI–NP Summer School

Perspectives in Physics with High–Power Lasers and Gamma Beams

Bucharest, September 21 – 25, 2015

FIRST ANNOUNCEMENT

The first edition of the ELI–NP Summer School will be held during September 21 – 25, 2015 in Bucharest, Romania.

SCOPE AND TOPICS

Laser–driven nuclear physics is a rapidly developing field. Pioneering experiments are taking place, dedicated facilities are being commissioned and new facilities are currently planned. The aim of ELI–NP SUMMER SCHOOL is to introduce PhD students and young researchers to this field while also presenting most recent experimental and theoretical advances. Novel research perspectives in the physics with high–power lasers and gamma beams will be discussed together with the science program and the instruments elaborated for the ELI–NP facility.

Well–recognized experts in the field will give the lectures, starting from an introductory level but also tackling more advanced topics. Students and young researchers are invited to contribute to the school with posters.

The scientific program of the first summer school will mainly cover the following topics:

- Laser–driven nuclear physics
- Astrophysics and cosmology with high–power lasers
- Strong–field QED and dark–matter physics with high–power lasers
- Attophysics
- High–power laser facilities
- Technical challenges of high–power laser experiments
- High–power laser based particle acceleration and applications
- Materials under extreme conditions

VENUE

The school will be held in the IFIN–HH Conference Hall in Magurele. Magurele is located southeast of Bucharest in the Ilfov region. It hosts the National Physics Platform that comprises several national physics research institutions and the Faculty of Physics of the University of Bucharest.

SUPPORT

A limited number of fellowships will be available for students and young researchers (consisting of full or partial local support but no transportation). The applicants should provide a short (one page) CV and a letter of recommendation from a professor or senior scientist who supports their application. Applications for fellowships can be made with letters of support sent by e-mail to

the address mentioned below before August 14th, 2015.

REGISTRATION

The participants to the school are required to register through the form available on the workshop's web page. Upon successful registration, a confirmation email will be sent to the applicant's address. The deadline for registration is August 14th, 2015. Successful applicants will receive further details about scientific and logistic aspects.

ORGANIZING COMMITTEE

Dimiter L. Balabanski, ELI-NP
Dimitris Charalambidis, ELI-ALPS
Sydney Gales, ELI-NP
Catalin Miron, ELI-DC
Florin Negoita, ELI-NP
Ovidiu Tesileanu, ELI-NP
Calin Alexandru Ur, ELI-NP
Ioan Ursu, ELI-NP
Daniel Ursescu, ELI-NP
Nicolae Victor Zamfir, ELI-NP

CONTACT

Workshop secretary: Mrs. Ewa Tracz

Correspondence: Please address all correspondence by email to the secretary of the workshop Mrs. Ewa Tracz: eli-np-school@eli-np.ro

School website: <http://www.eli-np.ro/2015-summer-school>

The ELI-NP project is co-funded by The European Union and the Romanian Government through the European Regional Development Fund.