FIRST CIRCULAR
NUCLEAR PHOTONICS 2018
June 24 – 29, 2018, Brașov, Romania

The 2nd International Conference on Nuclear Photonics will be held June 24 – 29, 2018 in Brașov, Romania. Nuclear Photonics 2018 is the second edition of a biennial series devoted to the pursuit of nuclear science and applications with photons.

The conference is organized by ‘Horia Hulubei’ National Institute of Physics and Nuclear Engineering, Extreme Light Infrastructure–Nuclear Physics and Transilvania University of Brașov.

Scope of the conference

The field of photon–based nuclear science and applications is evolving rapidly being driven by the major worldwide development of ultrahigh intensity lasers and brilliant quasi–monochromatic gamma beam systems. Nuclear Photonics 2018 aims at bringing together leading scientists, researchers and research scholars from around the world involved in the development of ultrahigh intensity lasers and gamma beam systems, nuclear physics and applications to exchange and share their experience and most recent results in the field.

The focus of Nuclear Photonics 2018 will be on the following main topics:

- Fundamental nuclear science and spectroscopy
- Laser–plasma nuclear physics
- High intensity laser–plasma interaction,
- Nuclear medicine including radiography and radiotherapy
- Industrial non-destructive material imaging and evaluation
- Isotope-specific, nuclear materials detection and management
- Photon-based hadron beams and applications
- Photon-based production of rare isotopes
- Photon-enabled pulsed neutron generation and science
- Photon-enabled pulsed positron generation and science
- Nuclear astrophysics and cosmology
- Gamma-ray science above the giant dipole resonance
- Strong field QED

Conference Chairs

Nicolae Victor Zamfir (ELI–NP), Chang Hee Nam (CoReLS), Karl Krushelnick (University of Michigan)
International Program Committee
Andreas Zilges (University of Cologne, co–chair), Calin Alexandru Ur (ELI–NP, co–chair), Dimiter Balabanski (ELI–NP), Angela Bracco (University of Milan), Edward Michael Campbell (University of Rochester), Julien Fuchs (Ecole Polytechnique Saclay), Cameron Geddes (LBNL), Fazia Hannachi (University of Bordeaux), Takehito Hayakawa (QST), Björn Manuel Hegelich (University of Texas at Austin), Hyung Taek Kim (CoReLS), James Koga (QST), Anle Lei (SIOM), Paul McKenna (Strathclyde University), Mitsuo Nakai (Osaka University), Takashi Nakano (Osaka University), Florin Negoita (ELI–NP), Markus Roth (Technical University Darmstadt), Dan Stutman (ELI–NP), Peter Thirolf (Ludwig Maximilian University of Munich), Anton Tonchev (LLNL), Donald Umstadter (University of Nebraska), Hiro Utsunomiya (Konan University), Ying K. Wu (Duke University)

Venue
The conference venue, ‘Sergiu Chiriacescu’ Aula of Transilvania University of Brasov, is located within walking distance of most of the major attraction points of Brasov.

Brasov is an old medieval city located in the center of Romania at about 180 km north of Bucharest. The city boasts of a rich historical heritage. Surrounded on three sides by mountains, it was the perfect place for a medieval settlement. The old city, established by the Teutonic Knights in 1211, is one of the best–preserved cities in Romania.

Visits
The conference will start on June 24th 2018 with a visit to the upcoming ELI–NP research facility. During the conference a visit with organ concert will be organized at the Black Church in Brasov. More details on the visits will be communicated at a later moment.

Registration and abstract submission
The conference program will consist of invited lectures, contributed presentations and a permanent poster exhibition. The list of invited speakers will be available on the conference web site.

The contributed presentations and the posters will be selected on the basis of abstract submission. Participants are invited to register and submit abstracts by using the registration form available on the web page. The deadline for abstract submission is January 15th 2018. Notification of abstract acceptance will be sent to authors before March 1st 2018.

The registration fee includes the participation to the conference sessions, the book of abstracts, coffee breaks, lunches, the welcome and conference dinners.

The early registration fee before April 15th 2018 is Euro 350. After this date the registration fee is Euro 400.

Details concerning the bank account will be given in the 2nd circular.
Accommodation
A list of hotels in downtown Brasov, most of them within walking distance of the conference venue, can be found on the conference webpage.

Important dates
- Abstract submission opened: November 15th 2017
- Abstract submission closed: January 15th 2018
- Notification of authors: March 1st 2018
- Early registration deadline: April 15th 2018
- Registration closed: May 15th 2018

Local organizing committee
Kazuo A. Tanaka (co–chair), Ioan Vasile Abrudan (co–chair), Alexandra Cârlig, Andi Cucoaneș, Petru Gheneș, Irina Ghineț, Violeta Iancu, Catalin Matei, Florin Rotaru, Laurențiu Şerban, Mara Tănase, Ovidiu Teșileanu, Mihaela Badea, Daniel Calaver, Laura Floroiu, Cătălin Goran, Dominic Kristaly, Adrian Manea, Ioana Manea, Andrei Mindru, Sorin Vlase

Secretariat
Gabriela Apetrei (gabriela.apetrei@eli-np.ro)
Catalina Oprea (catalina.oprea@eli-np.ro)

Contact
e-mail: np2018@eli-np.ro

Detailed information is available on the conference website http://nuclearphotronics2018.eli-np.ro

Looking forward to seeing you in Brasov!

The Local Organizing Committee