



SECOND CIRCULAR

NUCLEAR PHOTONICS 2018
June 24 – 29, 2018, Brasov, Romania

The 2nd International Conference on Nuclear Photonics will be held June 24 – 29, 2018 in Brasov, 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 Brasov.

Scientific Program

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.

The conference program will consist of invited lectures, contributed presentations and posters. The posters will be featured in the exhibition for the whole duration of the conference. Posters of young researchers will participate to the Best Posters awards competition.

The contributed presentations and the posters will be selected based on abstract submission. **The deadline for abstract submission was extended to February 28th 2018.** Notification of abstract acceptance will be sent to contributors before March 31st 2018.

The conference will start on Sunday June 24th and it will finish on Friday June 29th at lunch.

Conference Chairs

Nicolae Victor Zamfir (*ELI–NP, Romania*), **Chang He Nam** (*CoReLS, Korea*), **Karl Krushelnick** (*University of Michigan, USA*)



Tutorial Talks

At the beginning of the conference a session of four tutorial talks will introduce the general concepts of *photonuclear reactions* (Andreas Zilges, University of Cologne, Germany), *laser-driven particle acceleration* (Paul McKenna, University of Strathclyde, UK), *high intensity lasers* (Christopher Barty, University of California at Irvine, USA), and *accelerator-based gamma sources* (Ryoichi Hajima, Institutes for Quantum and Radiological Science and Applications, Japan). Tutorial talks will complement the scientific program of the conference by providing detailed information on the areas of research related to the main topics of the conference.

Invited speakers

Alexey Arefiev (University of California San Diego, USA), Franco Camera (University of Milan and INFN, Italy), Dimitris Charalambidis (Extreme Light Infrastructure – Attosecond, Hungary), Gilles Cheriaux (National Energetics Austin, USA), Albert Felicie (Lawrence Livermore National Laboratory, USA), Julien Fuchs (LULI, CNRS, Ecole Polytechnique, France), Sydney Gales (Extreme Light Infrastructure – Nuclear Physics, Romania), Fazia Hannachi (University of Bordeaux, France), Calvin Howell (Duke University, USA), Satyabrata Kar (Queen's University Belfast, UK), Hyung Taek Kim (Center for Relativistic Laser Science, Korea), James Koga (Institutes for Quantum and Radiological Science and Applications, Japan), Karl Krushelnick (University of Michigan, USA), Chang Hee Nam (Center for Relativistic Laser Science, Korea), David Neely (Rutherford Appleton Laboratory, UK), Peter von Neumann–Cosel (Technical University of Darmstadt, Germany), Sean Regan (Rochester University, USA), Deniz Savran (ExtreMe Matter Institute, GSI, Germany), Kazuo Tanaka (Extreme Light Infrastructure – Nuclear Physics, Romania), Chuanxiang Tang (Tsinghua University, China), Hiroaki Utsunomiya (Konan University, Japan), Luca Volpe (University of Salamanca, Spain)

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 and INFN), 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), Hiroaki Utsunomiya (Konan University), Ying K. Wu (Duke University)

Conference Venue

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



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

How to reach Brasov

Brasov can be reached by flying to **Henri Coanda Bucharest International Airport**. The organizers will provide bus transportation from the airport to ELI–NP and subsequently to Brasov on Sunday, June 24th 2018 and from Brasov to the airport on Friday, June 29th 2018.

Alternatively, Brasov can be reached from the airport by using private car transfer companies with on–line reservation or by train from Bucharest railway station.

Registration and 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 February 28th 2018.**

The registration fee includes the participation to the conference sessions, the book of abstracts, coffee breaks, lunches, the welcome and conference dinners and an organ concert at the Black Church in Brasov.

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

Payments must be made by bank transfer in Euro (EUR) and shall be free of any bank handling charges. The bank account details are:

Payment beneficiary: **IFIN-HH**

Bank: **Bancpost Magurele**

Bank adress: **Str. Atomistilor no. 1, 077125, Magurele, Romania**

IBAN (EUR): **RO94BPOS70903296299EUR01**

SWIFT: **BPOSROBU**

Please make a copy of the document confirming the bank transfer and submit it to the conference secretariat before **May 15th 2018**.

Visit to ELI – NP

On the first day of the conference, on Sunday, June 24th 2018, a visit to the ELI–NP facility in Magurele (Bucharest) will be organized. The conference organizers will provide the transport from the airport/Bucharest to Magurele and from Magurele to Brasov. More details on the visit will be communicated at a later moment on the conference webpage.

Social Events

A welcome cocktail will be organized in the evening of Monday, June 25th 2018. The poster session will be organized in the evening of June 26th 2018. The Social Dinner will take place in downtown Brasov on June 28th 2018. The social dinner will be preceded by an organ concert at the Black Church in downtown Brasov.



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.

Visa Information

Nuclear Photonics 2018 participants are kindly advised to check by using the following links whether they [need](#) a visa or [not](#) when travelling to Romania.

Further information regarding visa requirements as well as the Visa application procedures can be found in the Visa section of the Romanian Ministry of Foreign Affairs web site following [this link](#).

In case you need an invitation for the visa application, please contact us at np2018@eli-np.ro and we will be happy to provide it after your registration to the conference is completed.

Please proceed with visa formalities well in advance to avoid last minute issues.

Important Dates

- Abstract submission closed: **February 28th 2018**
- Notification of authors: **March 31st 2018**
- Early registration deadline: **April 15th 2018**
- Registration closed: **May 15th 2018**

Contact

e-mail: np2018@eli-np.ro

Local Organizing Committee

Kazuo A. Tanaka (*co-chair*), Ioan Vasile Abrudan (*co-chair*), Alexandra Cârlig, Andi Cucoaneş, Petru Ghenuche, Violeta Iancu, Catalin Matei, Florin Rotaru, Laurențiu Șerban, Mara Tănase, Ovidiu Teșileanu, Mihaela Badea, Daniel Calaver, Laura Floroian, Cătălin Goran, Dominic Kristaly, Adrian Manea, Ioana Manea, Andrei Mîndru, Sorin Vlase.

Secretariat

Gabriela Apetrei (gabriela.apetrei@eli-np.ro), Cătălina Oprea (catalina.oprea@eli-np.ro).

Detailed information is available on the conference website: <http://nuclearphotonics2018.eli-np.ro>

We are looking forward to seeing you in Brasov!

The Local Organizing Committee