

Nuclear Photonics 2020

FIRST CIRCULAR

June 1–5, 2020, Kurashiki, Japan



The 3rd International Conference on Nuclear Photonics will be held during June 1–5, 2020 in Kurashiki, Japan. The conference will be organized by the Institute of Laser Engineering (ILE) and Research Center for Nuclear Physics (RCNP), under Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Osaka Japan.



Scope of the conference

The field of photon-based nuclear science and applications is evolving rapidly being driven by the major worldwide developments of ultrahigh intensity lasers and brilliant quasi-monochromatic gamma-ray beam systems. **Nuclear Photonics 2020** aims at bringing together leading scientists, researchers and research scholars from around the world involved in the fields of high energy density physics, high power laser photonics, nuclear physics, astrophysics, accelerator and detector science, and their applications for exchanging and sharing the experience and most recent results

The focus of Nuclear Photonics 2020 will be on the following main topics:

- Interactions between photons and nucleus/hadrons/particles
- Laser-plasma nuclear physics
- High intensity laser-plasma interactions
- Laser Compton scattering gamma rays
- Photon-enabled secondary beams (ion, neutron, electron, positron, etc.) generation and its applications
- Photon-based production of rare isotopes
- Nuclear astrophysics and cosmology
- Fundamental photon science
- Strong field QED
- Photon vortex and unique wave function photons
- Isotope-specific nuclear materials detection, imaging, and evaluation
- Medical radioisotopes for radiography and radiotherapy
- Ultrahigh intensity laser optics and technology
- Accelerator and detector science

Conference Chairs

Ryosuke Kodama, Director of ILE, Osaka University

Takashi Nakano, Director of RCNP, Osaka University

International Advisory Board

Chris Barty, University of California at Irvine, USA

Ryoichi Hajima, National Institutes for Quantum and Radiological Science and Technology, Japan

Nicolae Victor Zamfir, ELI-Nuclear Physics/Horia Hulubei National Institute of Physics and Nuclear Engineering, Romania

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Calvin R. Howelll, Duke University, USA

Program Committee Chair

T. Hayakawa, National Institutes for Quantum and Radiological Science and Technology, Japan

Local Committee Chairs

A. Yogo, ILE, Osaka University

A. Tamii, RCNP, Osaka University

Venue

The conference venue, “Kurashiki Ivy Square” preserves the outward appearance of Kurabo spinning mill factory built in 1889, and was proclaimed as National Modernization Industrial Heritage by Japanese government in 2007. Kurashiki Ivy Square is close to the historical area of Kurashiki city.



Important dates

Abstract submission opens: November 1, 2019

Abstract submission closes: January 8, 2020

Notification to authors: March 1, 2020

Early registration deadline: March 31, 2020

Local organizing committee

Y. Abe (ILE), S.R. Mirfayzi (ILE), Y. Arikawa (ILE), M. Nakai (ILE), S. Fujioka (ILE), T. Hotta (RCNP), N. Kobayashi (RCNP), T. Shima (RCNP), T. Kawabata (Dep. of Phys.), A. Odahara (Dep. of Phys.)

Secretariat

M. Kurisu (ILE), A. Morimoto (RCNP)

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