

NEW OPPORTUNITIES AND CHALLENGES IN NUCLEAR PHYSICS WITH HIGH POWER LASERS

For a long time, studies in nuclear physics have been focused on single-event/process which occurs at traditional accelerators. However, lots of interesting physics are either rare events and/or to be explored under dense probing beams. High-power lasers can generate such dense beams, and provide exciting opportunities to probe/trigger new phenomena, ranging from multi-photon absorption, strong QED effects in nuclear processes, neutron capture and more. The main scope of this workshop is to join forces inter-discipline researchers to address those new opportunities and challenges.

Organizers:

Chieh-Jen (Jerry) Yang (ELI-NP)
Klaus M. Spohr (ELI-NP)
Paolo Tomassini (ELI-NP)
Yuji Fukuda (Kansai Photon Science institute)
Vojtěch Horný (ELI-NP)
Leonida A. Gizzi (CNR-INO, Pisa, Italy)
Domenico Doria (ELI-NP)

Confirmed speakers:

Julien Fuchs, Ecole Polytechnique, France	Edison Liang, Rice University, USA
Ishay Pomerantz, Tel Aviv University, Israel	Yuanbin Wu, Nankai University, China
Akifumi Yogo, Osaka University, Japan	Bradley S Meyer, Clemson University, USA
Yasuhiro Kuramitsu, Osaka University, Japan	Jorge Vieira, IST, Portugal
Ubirajara van Kolck, IJCLab, France, and University of Arizona, USA	Miroslav Krůs, Institute of Plasma Physics, Czech Academy of Sciences
Harald Griebhammer, George Washington University, USA	Károly Osvay, University of Szeged and ELI-ALPS, Hungary
Carlos Bertulani, Texas A&M university-Commerce, USA	Takehito Hayakawa, Kansai Photon Science institute, QST, Japan
Antonino Di Piazza, University of Rochester, USA	Peter Thirolf, Ludwig-Maximilians-University of Munich, Germany
Adriana Pálffy (via zoom), Max-Planck-Institut für Kernphysik, Germany	Philip Walker (via zoom), University of Surrey, UK
Gabriel Martínez Pinedo, TU Darmstadt and GSI, Germany	Matej Lipoglavšek, Jožef Stefan Institute, Slovenia
	Paul McKenna (via zoom), University of Strathclyde, UK

Director of ECT*: Professor Ubirajara van Kolck

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