

Romanian - Japanese Bilateral Workshop on QED and Plasma Interactions in Petawatt Laser Experiments

Program

Day 1 Monday October 9th

Session 1 (Chair: Shuta Tanaka)

09:25 – 09:30 (15:25 – 15:30 JST) **Shuta Tanaka**, Aoyama Gakuin University

“Opening”

09:30 – 10:10 (15:30 – 16:10 JST) **Ioan Dancus**, IFIN-HH*/ELI-NP**

“The 10PW peak power laser at ELI-NP”,

10:10 – 10:50 (16:10 – 16:50 JST) **Dimitar Balabanski**, IFIN-HH/ELI-NP

“Waiting for gamma-ray beams: Experimental setups at ELI-NP”,

10:50 – 11:30 (16:50 – 17:30 JST) **Yuki Abe**, Osaka University

“A multichannel scintillation detector for mass-resolved GeV-ion spectroscopy in laser-driven ion acceleration experiments”

Lunch

Session 2 (Chair: Yuki Abe)

13:30 – 14:10 (19:30 – 20:10 JST) **Domenico Doria**, IFIN-HH/ELI-NP

“Current Status of 1PW/10PW experiments at ELI-NP”

14:10 – 14:50 (20:10 – 20:50 JST) **Shogo Isayama**, Kyushu University

“Wakefield acceleration of protons by using near critical density target”

Coffee break 20min.

Session 3 (Chair: Keita Seto)

15:10 – 15:50 (21:10 – 21:50 JST) **Yasuhiro Kuramitsu**, Osaka University

“Extremely efficient nuclear reaction with an intense laser using graphene”

15:50 – 16:30 (21:50 – 22:30 JST) **Shuta J. Tanaka**, Aoyama Gakuin University

“Induced Compton scattering experiment in ELI-NP 1 PW laser”

*IFIN-HH = National Institute of Physics and Nuclear Engineering Horia Hulubei

** ELI-NP = Extreme Light Infrastructure – Nuclear Physics

Day 2 Tuesday October 10th

Session 4 (Chair: Shogo Isayama)

10:00 – 10:40 (16:00 – 16:40 JST) **Georgiana Giubega**, IFIN-HH/ELI-NP

“Laser-driven electron acceleration for nuclear applications at Laser Gamma Experiments Department”

10:40 – 11:20 (16:40 – 17:20 JST) **Jian Fuh Ong**, IFIN-HH/ELI-NP

“The interaction of ultraintense short laser pulse with nanostructured target”

Lunch

Session 5 (Chair: Ovidiu Tesileanu)

13:30 – 14:10 (19:30 – 20:10 JST) **Keita Seto**, Japan Atomic Energy Agency

“On nonlinear Compton scattering by high-intensity laser pulse”

14:10 – 14:50 (20:10 – 20:50 JST) **Yoshihide Nakamiya**, IFIN-HH/ELI-NP

“Probing vacuum birefringence with high-intensity laser”

Coffee break 20min.

Session 6 (Chair: Yoshihide Nakamiya)

15:10 – 15:50 (21:10 – 21:50 JST) **Cesim K. Dumlu**, IFIN-HH/ELI-NP

“Photon scattering in Laguerre Gauss Beams”

15:50 – 16:10 (21:50 – 22:10 JST) **Takumi Hasada**, Hiroshima University

“Pilot Search for axion-like particles in the eV mass by a three-beam stimulated resonant photon collider”

16:10 – 16:50 (22:10 – 22:50 JST) **Kensuke Homma**, Hiroshima University

“Helicity dependent gamma-gamma scattering for testing QED and BSM”

16:50 – 16:55 (22:50 – 22:55 JST) **Ovidiu Tesileanu**, IFIN-HH/ELI-NP

“Closing”

SOC/LOC

Shuta Tanaka, Yoshihide Nakamiya, & Ovidiu Tesileanu

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