

Session Program

26 August 2024 to 4 September 2024



XIII International Conference
on New Frontiers in Physics
26 Aug - 4 Sep 2024, OAC, Kolymbari, Crete, Greece

XIII International Conference on New Frontiers in Physics 2024

Workshop on Laser Fusion, a spin-off from heavy-ion collisions

Orthodox Academy of Crete, Kolymbari, Crete, Greece

Tuesday 3 September

10:00

Workshop on Laser Fusion, a spin-off from heavy-ion collisions

Session | **Location:** Room 1 | **Convener:** Prof. Laszlo Pal Csernai

10:00–10:30

Nanoplasmonics for laser assisted nuclear fusion

Speaker

Norbert Kroó

10:30

11:00

Workshop on Laser Fusion, a spin-off from heavy-ion collisions

Session | **Location:** Room 2 | **Convener:** Dr Istvan Papp

11:00–11:25

Advancements in plasma simulation of nanoplasmonics on the quest for laser-induced fusion at the NAPLIFE project

Speaker

Dr Istvan Papp

11:25–11:50

Minimizing losses in Laser-induced Nano-fusion

Speaker

Prof. Laszlo Pal Csernai

11:50–12:15

IONIZATION DYNAMICS IN MATTER WITH GOLD NANODOPES UPON LASER PULSE IRRADIATION OF VARIOUS INTENSITIES – NUMERICAL ANALYSIS

Speakers

Prof. Konstantin Zhukovsky, Konstantin Zsukovszkij

12:15–12:40

Crater formation in UDMA polymer embedded with plasmonic gold-nanorods irradiated by high energy single laser pulse - morphology studies

Speakers

Agnes Nagyne Szokol, Agnes Nagyne Szokol

12:40