

## Wednesday, 21<sup>st</sup> June

12:00 - 13:30 Registration & Welcome Cocktail

13:30 – 14:25 Opening Session

### S1.- HRR-Targets for High-Intensity laser-plasma physics

14:00 – 14:25 Henryk Fiedorowicz [WAT, Poland] ■ *Gas puff targets for high-intensity and high-energy laser-matter interactions experiments [INV]*

14:25 – 14:50 Alain Girad [CEA, France] ■ *TBD [INV]*

14:50 – 15:15 Christopher Spindloe [RAL, UK] ■ *Targetry Solutions for HRR Laser systems – A High Accuracy Microtarget Supply (HAMS) System & MEMS target Fab [INV]*

15:15 – 15:40 Carlos Salgado [CLPU, Spain] ■ *VEGA-2 comissioning experiment: WDM study by using X-ray betatron radiation [INV]*

15:40 – 16:05 Yonseyohsi Kitagawa [GPI, Japan] ■ *HRR Laser fusion studies in counter fast ignition scheme toward the CANDY reactor*

16:05 – 16:30 Enam Chowdhury [Ohio St. Univ., USA] ■ *MeV proton acceleration at kHz repetition rate from ultraintense laser target interaction.*

16:30 – 17:15 *Poster Session & Coffee Break*

17:15 – 17:40 Piotr Lutoslawski [ELI-Beamlines, Czech Rep.] ■ *TBD [INV]*

17:40 – 18:05 Sebastian Goede [XFEL, Germany] ■ *Cryogenic jet targets for HRR experiments at FEL & high power laser facilities [INV]*

18:05 – 18:30 Dominykas Gustas [LOA, France] ■ *Gas targets for laser wakefield acceleration of electrons to relativistic energies at kHz repetition rate [INV]*

18:30 – 18:55 Jens Hartman [LMU, Germany] ■ *Automated nano-foil target positioning system*

18:55 – 19:20 Rosa Letizia Zaffino [IMB-SCIS, Spain] ■ *Wafer-scale fabrication of high-density targets array for stable generations of proton beams by laser-plasma interaction*



Thursday, 22<sup>nd</sup> June

S2.-

## Targetry networks & fabrication

- 08:30 – 08:55 Irene Príncipe [HZDR, Germany] ■ *Ragets for HRR laser facilities: a foresight for the EUCALL project [INV]*
- 08:55 – 09:20 Martin Tolley [RAL, UK] ■ *Target fabrication at the Rutherford Appleton Laboratory and the Targetry [INV]*
- 09:20 – 09:45 François Sylla [Source Lab, France] ■ *Laser Plasma Accelerator for and beyond laboratories – the targetry approach [INV]*
- 09:45 – 10:10 Jörg Schreiber [LMU, Germany] ■ *Targ-N-try to viable laser driven particle and radiation sources*
- 10:10 – 10:35 Gabriel Schaumann [TUD, Germany] ■ *Target fabrication at TUD*
- 10:35 – 11:05 **Coffe Break**

S3.-

## Targetry for Applications I

- 11:05 – 11:30 Patrick Poole [LLNL, USA] ■ *Ion acceleration using ultra-thin, high optical quality, low cost, renewable films of liquid crystal [INV]*
- 11:30 – 11:55 Douglass Schumacher [Ohio St. Univ., USA] ■ *Towards a high repetition-rate target and plasma mirror system based on thin films of liquid crystal [INV]*
- 11:55 – 12:20 Tobias Ostermayr [LMU, Germany] ■ *Superintense laser-microplasma interactions and possible applications [INV]*
- 12:20 – 12:45 Malte C. Kaluza [IOQ Jena, Germany] ■ *Mass-Limited Targets for Laser-Driven Ion Acceleration [INV]*
- 12:45 – 13:10 Arie Zigler [Hebrew Univ. of Jerusalem, Israel] ■ *Temporal evolution of electrical fields generated during interaction of high intensity laser with structured targets [INV]*
- 13:10 – 13:35 Rodrigo López [LOA, France] ■ *Relativistic plasma mirrors at 1Khz*

S4.-

## TARG3 @CLPU

- 13:35 – 14:10 TARG3 Family Photo & Move to CLPU (by bus)
- 14:10 – 16:00 Lunch @ Coffee
- 16:00 – 16:30 Giancarlo Gatti [CLPU, Spain] ■ *VEGA Presentation*
- 16:30 – 19:00 Visit VEGA & CLPU
- 19:00 – 19:20 Move to Salamanca (Colegio Fonseca)

Friday, 23<sup>rd</sup> June

## S5.- Targetry for Applications II

- 09:00 – 09:25 Nico Neumann [TUD, Germany] ■ *Micro-structured targets by femtosecond laser irradiation for HRR Láser Plasma Science [INV]*
- 09:25 – 09:50 David Dellasega [Polimmi, Italy] ■ *Near critical density, foam-based, multi-layered targets for laser-driven ion acceleration [INV]*
- 09:50 – 10:15 Fernando Brandi [INO, Italy] ■ *Monitoring the gas number density in a pulsed flowing gas cell*
- 10:15 – 10:40 Yoshitaka Mori [GPI, Japan] ■ *Present operation status of target injection system engaged by 1-Hz ICF Driver HAMA*
- 10:40 – 11:05 María I. Sánchez [PLA, Spain] ■ *Experimental study of proton acceleration from thin-foil targets on a table-top Ti:Sapphire laser*
- 11:05 – 11:50 *Coffee Break*
- 11:50 – 12:15 Ludovic Chopineau [CEA, France] ■ *Plasma holograms for ultrahigh-intensity optics' [INV]*
- 12:15 – 12:40 Luca Defeli [Polimi, Italy] ■ *Numerical simulations of nanostructured near-critical plasmas [INV]*
- 12:40 – 13:05 Markus Hesse [TUD, Germany] ■ *Medium Repetition Rate Target Handling System for Composite Cryogenic Targets [INV]*
- 13:05 – 13:30 Lucía Martín [USC-USAL, Spain] ■ *Optimization of a fast rotating target to produce kHz X-ray pulses from laser plasma interaction*
- 13:30 – 13:55 Dragos C. Popescu [ELI-NP, Romania] ■ *Automatic Target Positioning System using relative optical Fiducial measurements for ELI-NP experimental setups*



### Posters

- 1 Álvaro Antolín [USAL-CLPU, Spain] *Electromagnetic pulse characterization generated by the VEGA laser system*
- 2 Neil Alexander [General Atomics, USA] *Concept for HHR Inserter for Solid Targets*
- 3 Gassan Zeraouli [CLPU, Spain] *An adjustable Kirkpatrick-Baez microscope as a diagnostic for laser x-ray sources*
- 4 Katsuhiko Ishii [GPI, Japan] *Laser-Driven shock generation & velocity measurement using frequency domain interferometer with chirped pulse laser*
- 5 Marine Huault [CLPU, Spain] *Strong magnetic field generation for electron & ion beam Tailoring as a prospective for the fast ignition scheme*
- 6 Jesús Garduño [UNAM, Mexico] *Z-scan confocal method for the characterization of a tight focused ultrashort laser & positioning of a solid target*
- 7 José Luis Henares [CENBG-CNRS-IN2P3, France] *Laser Ion acceleration in dense gas jet targets*
- 8 Dan Levy [Weizmann Inst. Sci., Israel] *Automatic tape drive for high-repetition laser-plasma ion acceleration*
- 9 Sam Atsbury [RAL, UK] *CLF advancements in cryogenic targetry for ion acceleration experiments*
- 10 Aurelia Ionescu [ELI-NP, Romania] *Target design for space radiation simulation at ELI-NP*
- 11 Camilo Ruiz [USAL, Spain] *Development of the multishot experiment for proton acceleration*
- 12 Ryohei Hanayama GPI, Japan] *Counter illumination and hole boring of free-fallen CD bead targets by ultra-intense lasers*
- 13 José A. Pérez [CLPU, Spain] *Laser driven electrons & x-ray Betatron radiation generation at VEGA*
- 14 Karl Zeil [HZDR, Germany] *Laser-Ablation-Based Ion source characterization and manipulation for Laser-Driven Ion acceleration*
- 15 Mauricio Rico [CLPU, Spain] *Laser material processing facility for targetry applications*
- 16 Mihail Cernaianu [ELI-NP, Romania] *ELI-NP overview of targetry systems and advances*
- 17 Alessandro Maffini [Polimi, Italy] *Production & Characterization of ultra-low density foam for laser-driven ion acceleration in near-critical regime*
- 18 Sophia Malko [CLPU, Spain] *Study of ionization states dynamics of Warm Dense Aluminium*
- 19 Julia Braenzel [MBI, Germany] *Liquid Nitrogen jet - a Laser Plasma target system for High Repetition Rate*
- 20 Cruz Méndez [CLPU, Spain] *VEGA laser operation*
- 21 Petru Ghenuche [ELI-NP, Romania] *Structured targets for tailored laser-matter interaction*
- 22 Cristina Gheorgiu [ELI-NP, Romania] *Target fabrication capabilities and upcoming strategies at ELI-NP*