

Workshop On Micro- And Nano-structured Materials for Experiments With High-power Lasers

| Time | for Experiments With High-power Lasers | | Speaker | Affiliation |
|-----------------------------------|--|--|---------------------------|--|
| 08:30 | Registration | | | |
| 09:00 | Welcome and opening | | | |
| Session 1 Chair: M. Cipriani | | | | |
| 09:15 | Boost of the DLA-based electron and proton acceleration in foams by an additional ns-pulse. | | Olga Rosmej | GSI Helmholtzzentrum für Schwerionenforschung, Germany |
| 09:30 | Direct laser accelerated electrons and generation of ultrabright MeV bremsstrahlung with foam targets at PHELIX | | Sebastian Busch | Institute for Applied Physics (IAP), Goethe University, Germany |
| 09:45 | Characterization of bright betatron radiation driven by petawatt laser interaction with ionized low-density foam target | | Jakub Cikhardt | Czech Technical University in Prague, Czech Republic |
| 10:00 | Ion acceleration from micrometric targets immersed in an intense laser field | | Ishay Pomerantz | The School of Physics and Astronomy, Tel Aviv University, Israel |
| 10:15 | Coffee break | | | |
| Session 2 Chair: O. Rosmej | | | | |
| 10:45 | Laser interaction with foams for ICF applications: experiments and models | | Vladimir Tikhonchuk | ELI-Beamlines Facility, Czech Republic |
| 11:00 | Ablation loading amplification from Carbon nano-structured foams | | Mattia Cipriani | ENEA, Italy |
| 11:15 | Optimization of high-power laser interactions with low density foam targets for production of neutron bunches suitable for damage and activation studies | | Piotr Raczka | IPPLM, Poland |
| 11:30 | Study of High-Power Laser Interaction with Lightweight Polymer Materials | | Hamdan Alhashmi | Technology Innovation Institute, United Arab Emirates |
| 11:45 | Robust monolithic meta-optics for high-power laser beam shaping from near-UV to near-IR | | Marco Piccardo | Instituto Superior Técnico, Lisbon, Portugal |
| 12:00 | Discussion | | | |
| 13:00 | Lunch | | | |
| Session 3 Chair: V. Tikhonchuk | | | | |
| 14:00 | Pulsed Laser Deposited Nanofoams for High Power Laser-Matter Interaction | | Alessandro Maffini | Politecnico di Milano, Italy |
| 14:15 | Plasma polymerized hexane nanoparticles as target for laser-driven ion acceleration | | Marco Tosca | ELI-Beamlines Facility, Czech Republic |
| 14:30 | Nanostructured targets fabrication at ELI-NP | | Stefania-Cristina Ionescu | ELI-NP / IFIN-HH, Romania |
| 14:45 | Photon bubbles in laser interaction with nano-structured materials | | José Tito Mendonça | IST, Universidade de Lisboa, Portugal |
| 15:00 | Vacuum laser acceleration of electrons from nanotips | | Laszlo Veisz | Umeå University, Sweden. |
| 15:15 | High peak-power Light springs and IMPALA spatiotemporal laser measurement | | Pablo San Miguel Claveria | IST, Universidade de Lisboa, Portugal |
| 15:30 | Coffee break | | | |
| 16:00 | Discussion | | | |
| 17:00 | Concluding remarks | | | |