

ECLIM 2024 - POSTERS

Number	Author	Title
P-1	A. Ferreira	Machine Learning for Aberration Correction with Spatial Light Modulators
P-2	A. Golovanov	Genetic algorithm optimization of a laser-plasma accelerator for very high-energy electron radiotherapy
P-3	A. Maffini	Hydrogenated boron nanofoams for laser-driven proton-boron fusion
P-4	A. Mercuri-Baron	Dynamical Screening of ultra-intense Fields in QED plasmas
P-5	B. Barbosa	Phase Control of Nonlinear Breit-Wheeler Pair Creation
P-6	C. Celma	EOS Generation for Laser-Matter Interaction
P-7	C. Willim	Angular momentum transfer and axial magnetic field generation in nonlinear laser-plasma interaction without net laser angular momentum
P-8	D. Blackman	Impact of electron trapping on stimulated Raman scattering under incoherent broadband laser light in homogeneous plasma
P-9	D. Kanti	Nondipole effects in radiative recombination assisted by ultrashort laser pulses
P-10	D.J. Stark	Role of Ion Mobility in Relativistic Self-focusing of Laser Pulses in Near-Critical Density Plasmas
P-11	F.D. Cruz	Mitigating laser-plasma instabilities using broadband lasers: a comparative study between PIC simulations and the Generalized Photon Kinetics theory
P-12	F. Gatti	Experimental campaign on VEGA-3 laser: thin film targets investigation and magnetic spectrometer testing
P-13	G. Buica	(e, 2e) ionization of hydrogen by fast-electron-impact in an elliptically polarized laser field
P-14	G. Pérez-Callejo	Probing HED shock dynamics via 2D Talbot X-ray interferometry
P-15	G. Petringa	First comprehensive study of the 11B-p fusion reaction using a picosecond laser in both in-target and pitcher-catcher schemes for future energy generation applications
P-16	H. Gomes	Automation of data acquisition for an experimental system for nonlinear material study and characterization
P-17	H.R. Hamedí	Enhanced coherent optical effects in Ξ -shaped hybrid quantum-plasmonic systems
P-18	H. Terças	Excitation of Axions by Intense Laser Pulses in a Plasma
P-19	L. Ansia	Modelling non-thermal XFEL heating of solids
P-20	L.I. Iñigo Gamiz	Optimisation of Positron Beams using Direct Laser Acceleration
P-21	L.O. Silva	LWFA generated electron beams and strong field QED at the interaction point of collider-like configurations
P-22	M. Ben Tayeb	Usage of Generative AI for ICF Target Optimization
P-23	M.S. Galli De Magistris	Pulsed Laser Deposition of carbon nanostructured foams for Inertial Confinement Fusion
P-24	M.M. Majczak	Control of electron vortex- and spiral structures in photodetachment of H ⁻
P-25	M.M. Majczak	Scattering matrix approach to dynamical Sauter- Schwinger process
P-26	M.P. Mendes	Second-Order Couplings in Ultrashort Pulses with Cylindrical Symmetry
P-27	M. Raclavský	Talbot imaging of a high density plasma with a broadband betatron X-ray source
P-28	M. Salvadori	Frequency doubled laser pulses for high-contrast ion acceleration: experimental and simulation studies
P-29	M.A. Serebryakov	Quantum electrodynamics cascade arising at reflection of a multipetawatt laser pulse from a solid plasma target
P-30	M. Tosca	Enhanced laser absorption and ion acceleration by boron nitride nanotube targets and high-energy PW laser pulse
P-31	M. Tryus	Laser-driven Ion Acceleration for Users: ELIMAIA & ELIMED Beamlines
P-32	Ó. Amaro	Framework for asymptotic particle distributions in electron-laser scattering
P-33	Ó. Amaro	Quantum Hybrid simulation of Strong-Field QED
P-34	O. Klimo	Magnetic Field Influence on Laser-Plasma Interaction
P-35	O. Turianska	X-ray generation using local plasmonic resonances
P-36	P. Valenta	Injection and direct laser acceleration of electrons in preformed plasma channels
P-37	P.J. Bilbao	Radiative cooling via betatron oscillations as a laboratory analogue of ring-maser in astrophysical processes
P-38	R. Almeida	Unification of shape invariant constant velocity pulses
P-39	R. Babjak	Direct laser acceleration of electrons - high-charge alternative to LWFA
P-40	S. Assenbaum	Investigating laser-plasma interaction with cryogenic hydrogen jet targets for laser ion acceleration at high repetition rate
P-41	S. Ionescu	Metallic nanowires and nanotubes for improved laser-matter interaction
P-42	S. Mandal	Onset of extreme nonlinearity in bulk solids
P-43	S. Pustova	Direct Laser Acceleration in self-guided regime

P-44	Sz. Majorosi	Pseudospectral Exponential Method in Particle-in-Cell Simulations
P-45	Vi. Kocharovsky	Weibel and firehose turbulence in a weakly magnetized plasma: Quasilinear, invariant and PIC approaches to spectral evolution
P-46	V. Munzar	Characterization of electron emission and target polarization in the EMP experiments at the kilojoule laser system PALS
P-47	V.M.Perez-Ramirez	Time-Evolving Plasma Diffraction Gratings for Beam Steering
P-48	Yoann Pertot	A universal broadband and CEP stable seeder for high-power amplifiers
P-49	Z. Mohamadzade	Enhancing Attosecond Pulse Intensity via Optimized Flying Mirror Reflectivity with Circular Polarization of Driver Pulse
P-50	A. Marcu	High-Power Laser Parameters and EMP Emission Correlations for Solid Targets
P-51	C. Diplasu	Imaging of high-power laser focusing on solid targets
P-52	P. Santos	Laser technology for selective paint's removal on polymeric parts
P-53	P. Santos	Laser irradiation for removal of a metallized coating on polymeric parts, with high shape definition
P-54	M. Meisel	Advanced bandwidth and energy control of an all-optical hard Compton X- ray source
P-55	S. Busch	Direct laser accelerated electrons and generation of ultrabright MeV bremsstrahlung with foam targets at PHELIX
P-56	D. Kartashov	Nanosecond Life-Time Hot and Dense Plasmas From Relativistic Laser-Nanowire Array Interaction
P-57	T. Huet	Toward a realistic modelling of the heating and ionization of a solid target irradiated by an ultra-intense laser
P-58	H. AlHashmi	Study of High-Power Laser Interaction with Lightweight Polymer Materials