

OLUG 2021 Poster Sessions**Tuesday, April 27, 2021****[PREVIEW POSTERS CLICK HERE](#)**

Breakout Room Number	Presenter last	Presenter first	Organization	Poster Title
01	VanDervort	Robert	Univ Michigan	Investigation of the interaction between ablated carbon and gold plasmas with relevance to indirect drive inertially confined fusion
02	Sauppe	Joshua P.	LANL	3D Hydrodynamics Modeling of Cylindrical Implosion Experiments, J. P. Sauppe
03	Riedel	William	Stanford Univ	Kinetic Mix at Gas-Shell Interface in Inverted Corona Fusion Experiments
04	Reichelt	Benjamin	MIT	Modeling the Effects of Hot Electron Magnetic Confinement on Hard X Ray Spectra in Hohlraums
05	Raymond	Anthony	General Atomics	Hot Electron and Shock Breakout Characterization in Shock Ignition Relevant Experiments
06	Joshi	Tirtha	LLE	Observations of the Modulations Associated with 60-Beam Overlap in X-Ray Self-Emission Images of Directly Driven Implosions
07	Palaniyappan	Sasi	LANL	Hydro-instability growth measurements in cylindrical implosion experiments at the OMEGA and the NIF laser facilities
08	Matsuo	Kazuki	UCSD	Energy deposition in magnetized dense plasma by laser-driven relativistic electrons
09	Khan	Matthew	Univ York	Low-Adiabatic Direct-Drive Implosion Dynamics
10	Johnson	Tim M.	MIT	Yield degradation due to laser drive asymmetry in D3He backlit proton radiography experiments at OMEGA
11	Jeet	Justin	LLNL	An inertial confinement fusion plasma based cross-calibration of the deuterium-tritium gamma-to-neutron branching ratio
12	Atzeni	Stefano	Univ Rome	2-D modelling and simulation of magnetized laser fusion targets
13	Michta	David	Univ Rochester	Simulating Warm Dense Plasmas with a Hybrid Molecular Dynamics – Quantum Hydrodynamics Approach
14	Kim	Donghoon	Princeton Univ	Experimental Evidence for a Post-Pyrite Phase of Germanium Dioxide: Phase Transitions in SiO2 Analogues under Ramp Compression
15	Bhutwala	Krish	UCSD	Creation of Si Warm Dense Matter using an intense proton beam by the OMEGA-EP short pulse laser and simulated with 2D particle-in-cell
16	LeFevre	Heath	Univ Michigan	Experiments to measure photoionization fronts on the Omega laser facility

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Breakout Room Number	Presenter last	Presenter first	Organization	Poster Title
01	Zhang	Shu	Princeton Univ	Non-Maxwellian Particle Distribution Functions and Instabilities in Magnetically Driven Reconnection at Low Beta Using Laser-Powered Capacitor Coils
02	Russell	Brandon	Univ Michiga	Magnetic field and relativistic-electron dynamics in solid-target:long-pulse-laser:short-pulse-laser interactions
03	Malko	Sophia	PPPL	Experimental study of magnetic field dynamics in magnetized HED plasmas
04	Ghosh	Swarvanu	USCD	ANALYZING WEIBEL-FILAMENT SCALE SIZE IN COLLIDING COUNTER-STREAMING PLASMA JETS
05	Goudal	Thibault	CELIA	Exploring the hydrodynamic instabilities at early times in HED conditions on OMEGA EP: Design and modeling
06	Chien	Abraham	PPPL	Pulse width dependence of magnetic field generation using laser-powered capacitor coils
07	Bose	Arijit	MIT, Univ Delaware	Magnetized shock-driven implosion platform at OMEGA for studies of strong electron and ion magnetization
08	Bott	Archie	Princeton Univ, Univ Oxford	Time-resolved turbulent dynamo in a laser plasma
09	Tzeferacos	Petros	Univ Rochester	The FLASH code for computational HEDP—recent additions and improvements
10	Sebald	James	Prism Computational Sciences Inc	VISRAD, 3-D Target Design and Radiation Simulation Code
11	Ruocco	Alessandro	CLF-RAL	Particle-in-cell simulations of laser-plasma instabilities: creation of a dataset for training a deep-learning-based LPI surrogate for ICFA
12	Reyes	Adam	Univ Rochester	High-Order Implicit-Explicit ADER-RK methods for Stiff Systems of Equations
13	Nutter	Arun	Univ York	Modelling Laser-Plasma Instabilities for Inertial Fusion
14	Hansen	Edward C.	Univ Rochester	Implicit Anisotropic Magnetic Resistivity in the FLASH Code
15	Cearley	Griffin	Univ Michigan	Computational investigation of impulse-fluence scaling in x-ray illuminated materials on the National Ignition Facility
16	Sperry	Bryan	MIT	Geant4 simulations for MRS neutron spectrometers on OMEGA and the NIF
17	Sadler	James	LANL	Movement of Magnetic Fields in a Collisional Plasma
18	Adrian	Patrick	MIT	Measurements of ion-electron equilibration utilizing low-velocity ion stopping in High Energy Density Plasmas at OMEGA
19	Pérez-Callejo	Gabriel	Univ Bordeaux	Spectroscopic modelling of highly magnetized cylindrical implosions

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Breakout Room Number	Presenter last	Presenter first	Organization	Poster Title
01	Valdivia	M. Pia	John Hopkins Univ	Phase-contrast Imaging of Laser-Irradiated CH Foils through Talbot-Lau X-ray Deflectometry
02	Signor	Matthew	SUNY Geneseo	Oxygen Calibration of Xylene Scintillators using Cosmic Ray Muons
03	Mazarei	Samad	California State Univ Channel Island	Simulating Protons through Magnetic Fields to Characterize High Energy Laser Experiments
04	Ocampo	Ian K.	Princeton Univ	In-situ x-ray diffraction of zinc oxide under laser-driven ramp compression: Extreme metastability of the B1-type structure
05	Myren	Samuel	LANL	Fresnel zone plate imaging and synthetic diagnostic modeling for the Omega laser facility
06	Lu	Yingchao	Univ Rochester	Monte Carlo simulations for the proton radiography in high-energy-density plasma experiments
07	Kunimune	Justin	MIT	Implementation of knock-on deuteron imaging for diagnosing the morphology of an ICF implosion at OMEGA
08	Heuer	Peter V.	Univ Rochester	Open Source HEDP Diagnostic Tools in PlasmaPy
09	Freeman	Matthew	LANL	Magnetic-Lens Based Flash Electron Radiography
10	Ito Valdez Serena	Emiko Keily	California State Univ Channel Island	Mechanical Automation of Laser Laboratories by Undergraduates
11	Bailly-Grandvaux	Mathieu	UCSD	An all-optical platform to characterize strongly magnetized hot dense plasmas at >10 kT
12	Arrowsmith	Charles D.	Univ Oxford	Development of a new sector-magnet electron-positron-proton spectrometer (SMEPPS) diagnostic for use in a wide-range of HEDS experiments at the OMEGA laser facility
13	Allen	Cameron H.	Univ Nevada-Reno	Development of Fresnel Refractive Diffractive Radiography at the Omega Laser Facility
14	Tang	Hongmei	Univ Michigan	Laser Channeling and Electron Acceleration from High Intensity Laser Interactions with an Underdense Plasma
15	Kim	Joohwan	UCSD	Efficient ion acceleration by continuous field in target transparency regime