

Scientific program

Sixth International Conference on High Energy Density Physics (ICHED2017)

Monday, June 5			
14:00	17:00	Registration	
17:00	19:00	Welcome dinner	
Tuesday, June 6			
8:50	9:00	Opening	R. Kodama (ILE)
		Lab. Astro1	<i>Chair. Y. Sakawa</i>
9:00	9:50	Plenary	P. Chen (NTU)
9:50	10:10		A. Ciardi (Sorbonne U.)
10:10	10:30		T. Michel (LULI)
		Accelerating Plasma Mirrors to Investigate Black Hole Information Loss Paradox	
		Laboratory astrophysics studies of accretion flows with magnetized laser-produced plasmas	
		Interaction of a highly radiative shock with a solid obstacle	
10:30	11:00	Coffee break	
		ICF1	<i>Chair. A. Sefkow</i>
11:00	11:30	Invited	T. Ma (LLNL)
11:30	11:50		T. Gong (Osaka U.)
11:50	12:10		N. Iwata (ILE)
12:10	12:30		A.L. Lei (SILP)
		Status of Ignition Experiments on the NIF	
		Improvement of implosion performance by controlling preheat with a solid Cu foam sphere target	
		Transition from hole boring to plasma blowout in multi- picosecond laser-plasma interactions	
		High intensity laser plasma physics research at the Shanghai Institute of Laser Plasma	
12:30	14:00	Lunch	
		LP11	<i>Chair. Y. Fukuda</i>
14:00	14:30	Invited	A. Arefiev (UT Austin)
14:30	14:50		A. Morace (ILE)
14:50	15:10		W.M. Zhou (CEAP)
15:10	15:30		Canceled
		New frontiers of particle acceleration and photon generation in laser-driven megatesla magnetic fields	
		A new injection scheme for vacuum laser acceleration	
		Enhancing beam performance by interfering laser beamlets	
15:30	16:00	Coffee break	
		WDM1	<i>Chair. S.M. Vinko</i>
16:00	16:30	Invited	N. Ozaki (Osaka U.)
16:30	16:50		E. McBride (DESY)
16:50	17:10		R. Royle (UN Rino)
17:10	17:30		M. MacDonald (SLAC)
		XFEL observation of ultrafast lattice dynamics in laser-produced extreme conditions	
		Shear-induced Lowering of Phase Transitions in Dynamically Compressed Matter	
		Kinetic modeling of x-ray laser-driven plasmas via particle- in-cell simulation	
		X-ray diffraction measurements of polycrystalline diamond near the Hugoniot elastic limit	
Wednesday, June 7			
		WDM2	<i>Chair. N. Ozaki</i>
9:00	9:50	Plenary	A. Benuzzi-Mounaix (LULI)
9:50	10:10		S. Steinke (LBL)
10:10	10:30		T. Lane (West Virginia U.)
		Overview of recent WDM experiments related to earth-like planets	
		Isochoric heating of solid gold targets with PW-laser-driven ion beams	
		Experimental development of isoelectronic line ratios in soft x-ray absorption spectra as a temperature diagnostic on Z	
10:30	11:00	Coffee break	
		LP12	<i>Chair. A. Morace</i>
11:00	11:30	Invited	W. Ma (Peking U.)
11:30	11:50		A. Faenov (Osaka U.)
11:50	12:10		S.M. Weng (SJTU)
12:10	12:30		C. Curry (SLAC)
		Cascaded laser acceleration of carbon ions from double- layer nanotargets	
		Radiation properties of high z foils irradiated by femtosecond laser pulses with intensities approaching to 10^{22} W/cm ²	
		Recent progresses on laser-driven ion acceleration in LLP of SJTU	
		Advanced Proton Acceleration from Cryogenic Hydrogen Jets	
12:30	14:00	Lunch	
		ICF2/LP13	<i>Chair. W.M. Zhou</i>
14:00	14:30	Invited	A. Sefkow (LLE)
14:30	14:50		Y.-C. Wu (CEAP)
			Y. Fukuda (QST)
		Unprecedented stability in Z-pinch implosions due to magnetic fields and plasma physics	
		Researches of intense-laser-driven radiation sources at LFRF	
		Quasi-monoenergetic proton acceleration exceeding 200 MeV triggered by the intra-cluster collisionless shock in the relativistically-induced transparency regime	
		ARC-driven Proton Beams for Probing and Driving High- Energy-Density Experiments on the NIF	
14:50	15:10		
15:10	15:30		D. Mariscal (LLNL)
15:30	16:00	Coffee break	
		Lab. Astro2	<i>Chair. A. Ciardi</i>
16:00	16:30	Invited	G. Loisel (Sandia)
16:30	16:50		C. Li (MIT)
			G. Rignon (LULI)
		A benchmark experiment for photoionized plasma emission from accretion-powered x-ray sources	
		Exploration of the Kinked Jet in the Crab Nebula with Scaled Laboratory Experiments	
		Laboratory Astrophysics relevant to Supernovae Remnants: Rayleigh-Taylor instability experiments in radiative and turbulent-like regimes	
		Observations of the magnetized disruption of inertially confined plasma flows	
16:50	17:10		
17:10	17:30		M. Manuel (U. Michigan)
Thursday, June 8			
		ICF3	<i>Chair. A.L. Lei</i>
9:00	9:50	Plenary	P. Patel (LLNL)
9:50	10:10		K.F.F. Law (ILE)
10:10	10:30		H. Kato (ILE)
		Path forward for ignition on NIF	
		Direct characterization of spatial profile of externally- applied magnetic field in Fast Ignition target	
		Laser imprinting on diamond surface	
10:30	11:00	Coffee break	
		Lab. Astro3	<i>Chair. M. Manuel</i>
11:00	11:30	Invited	F. Suzuki-Vidal (Imperial C.)
11:30	11:50		Canceled
11:50	12:10		L. Van Box Som (CEA)
12:10	12:30		H.S. Park (LLNL)
		Counter-propagating radiative shock experiments on the Orion laser	
		High-energy processes in magnetic cataclysmic variables: from accreting compact objects to laboratory plasmas	
		Results from astrophysical collisionless shock experiments on NIF and Omega	
12:30	14:00	Lunch	
16:00	18:00	Poster	
		P1	E. Falize (CEA)
		P2	M. Hata (ILE)
		P3	R. Kumar (ILE)
		P4	L. Suttle (Imperial C.)
		P5	T. Tao (USTC)
		P6	K.-G. Dong (CEAP)
		P7	A. Saunders (UC Berkeley)
		P8	Z. Jin (Osaka U.)
		P9	S. Tanaka (Konan U.)
		P10	T. Clayson (Imperial C.)
		P11	I.E. Golovkin (Prism co.)
		P12	V. Golovkina (Prism co.)
		P13	G.-Y. Hu (USTC)
		P14	T.B. Tang (USTC)
		P15	A. Sefkow (LLE)
		P16	A. Angulo (U. Michigan)
		P17	S. Kawazu (Osaka U.)
		P18	M. Hoshomi (Osaka U.)
		P19	K. Katagiri (Osaka U.)
		P20	T. Pikuz (Osaka U.)
		P21	T. Otsuki (Osaka U.)
		P22	H. Habara (Osaka U.)
		P23	H. Nagatomo (ILE)
		Basic scalings and new symmetry approaches for radiation hydrodynamics flows to define astrophysical relevant experiments with powerful lasers	
		Fast ionization and acceleration of high-Z ions in high- intensity short-pulse laser-solid interaction	
		Weibel Instability and Jitter Radiation in High-Intensity Laser-Plasma Interaction	
		Magnetic reconnection in pulsed-power driven experiments of colliding supersonic, magnetized plasma flows	
		Simulation of jet formation in laser produced plasma in an external magnetic field	
		Positron acceleration under the TNSA regime in ultra-intense laser-solid interactions	
		Elastic X-ray Scattering from Argon Impurities in Imploding Beryllium Capsules	
		Distortion Reduction by Introducing an Initial Birefringence in Intense Terahertz Time-Domain Spectroscopy System	
		Induced Compton Scattering off Anisotropic Radiation	
		Magnetically-driven radiative shock experiments for laboratory astrophysics and MagLIF	
		SPECT3D, Imaging and Spectral Analysis Package	
		VISRAD, 3-D Target Design and Radiation Simulation Code	
		Effect of electron recirculation on a hard x-ray source for Compton radiography produced by picosecond petawatt laser irradiated Au thin foil and wire	
		Laser plasma evolution in external transverse magnetic field	
		Adventures in ICF and HEDP with magnetic fields	
		NIF laboratory astrophysics simulations investigating the effects of a radiative shock on hydrodynamic instabilities	
		Real-scale PIC simulation with dynamic load balance parallelization	
		XFEL observation of the stress non-uniformity at shock front in sintered alloy	
		Ultrafast observation of anomalous lattice deformation in graphite	
		Development of new diagnostics in the interests of pump- probe experiments	
		Introduction of experimental equipment integrating XFEL light source and TW laser	
		Direct irradiation of ultraintense laser light into imploded plasma	
		Simulation study on the magnetic field effect in pre-plasma of ultra-intense laser	
18:30	20:00	Conference Dinner	
Friday, June 9			
		LP14	<i>Chair. H. Takabe</i>
9:00	9:50	Plenary	J. Koga (QST)
			M. Gauthier (SLAC)
		Radiative Electron Dynamics in Multiple Laser Pulse Fields and Applications	
		Generation of intense magnetic fields by relativistic Biermann Battery mechanism during high-intensity laser- plasma interaction	
9:50	10:10		
10:10	10:30		Y. Kuramitsu (NTU)
		Ion acceleration with an extremely thin target	

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10:30	11:00	Coffee break		
		WDM4		<i>Chair: Y. Sentoku</i>
11:00	11:30	Invited	S.M. Vinko (U. Oxford)	Auger Clocking Femtosecond Collisional Plasma Dynamics via Resonant X-ray Spectroscopy
11:30	11:50		T. Clayton (Imperial C.)	Results and analysis of laser driven counter-propagating radiative shock experiments performed in Neon
11:50	12:10		G. Dyer (UT Austin)	Probing the onset of laser-induced relativistic transparency in massive targets
12:10	12:20	Closing	M. Koenig (LULI)	
12:20		Lunch		