

May 28 (Mon)

		Session 1 [Reconnection 1]		<i>Chair: Y. Sakawa</i>
8:30			R. Kodama (ILE, Osaka U)	Opening Remarks
8:40	<i>Invited</i>	S01.1	K. Shibata (Kyoto U)	Superflares on solar type stars
9:05	<i>Invited</i>	S01.2	L. Suttle (Imperial College)	An experimental platform for pulsed-power driven magnetic reconnection
9:30	<i>Invited</i>	S01.3	Y. Ono (U of Tokyo)	Magnetic reconnection experiments by use of merging tokamak and spheromak plasmas
9:55		S01.4	B. Qiao (Peking U)	Magnetic reconnection in the high-energy-density and relativistic regime
10:10	10:40	Coffee Break		
		Session 2 [Accretion]		<i>Chair: M. Koenig</i>
10:40	<i>Invited</i>	S02.1	K. Kohno (U of Tokyo)	Radio to (sub)millimeter observations of astrophysical plasmas
11:05	<i>Invited</i>	S02.2	G. Loisel (SNL)	A benchmark experiment for x-ray emission and temperature diagnostics in accretion-powered photoionized plasmas
11:30		S02.3	Y. Li (IoP, CAS)	Laboratory formation of bipolar jets due to collimation of a wide-angle disk plasma wind embedded in poloidal magnetic fields
11:45		S02.4	A. Mizuta (RIKEN)	Relativistic Alfvén pulse emission from black hole accretion disk and particle acceleration via wake fields in relativistic jets
12:00	13:30	Lunch Break		
		Session 3 [Turbulence 1]		<i>Chair: C. Kuranz</i>
13:30	<i>Invited</i>	S03.1	P. Tzeferacos (U of Chicago)	Magnetic fields in the Cosmos: how laser-driven experiments can shed light on turbulent dynamo
13:55	<i>Invited</i>	S03.2	R. Kumar (Tata Institute)	Giant magnetic fields in intense laser-solid interactions as astrophysical analogues
14:20	<i>Invited</i>	S03.3	A. Rigby (U of Oxford)	Electron acceleration by wave turbulence in a magnetized plasma
14:45		S03.4	Y. Masada (Aichi U of Edu.)	Numerical simulations of solar magnetism: Organization of large-scale magnetic structure in turbulent stratified convection
15:00		S03.5	A. Bott (U of Oxford)	Characterizing the evolution of dynamo-generated magnetic fields in a turbulent laser plasma
15:15	17:00	Poster Session 1 & Coffee		

		Session 4 [Collisionless Shock]		<i>Chair: B. Remington</i>
8:30	<i>Invited</i>	S04.1	H. Rinderknecht (LLNL)	Progress toward fully-formed collisionless astrophysically-relevant shock experiments on OMEGA and the NIF
8:55	<i>Invited</i>	S04.2	D. Yuan (NAO, CAS)	Laboratory investigation of the filamentation instability in counter-streaming flows using optical diagnostics
9:20	<i>Invited</i>	S04.3	M. Weidl (UCLA)	Observations of the resonant right-hand instability in the Large Plasma Device
9:45		S04.4	H.-S. Park (LLNL)	Study of magnetized collisionless shocks on Omega
10:00		S04.5	D. Schaeffer (Princeton U)	Generation of laser-driven, high-Mach-number magnetized collisionless shocks
10:15		S04.6	E. Tubman (Imperial College)	Experimental studies of bow shocks formed in supersonic plasma flows with varying advected magnetic fields
10:30	12:00	Poster Session 2 & Coffee		
12:00	13:30	Lunch Break		
		Session 5 [EOS 1]		<i>Chair: M. Millot</i>
13:30	<i>Invited</i>	S05.1	N. Hartley (HZDR)	Diamond rain in the interior of large planets
13:55	<i>Invited</i>	S05.2	R. Smith (LLNL)	Equation of state of Fe and Fe-Si under core conditions of large rocky exoplanets
14:20		S05.3	H. Yabuta (Hiroshima U)	Laser-shock evolution of organic molecules in carbonaceous meteorite
14:35		S05.4	F. Soubiran (LGLTPE)	Properties of magnesium oxide in super-Earths
14:50	15:20	Coffee Break		
		Session 6 [Supernova]		<i>Chair: R. Yamazaki</i>
15:20	<i>Invited</i>	S06.1	A. Wongwathanarat (MPA)	Bridging the gap between core-collapse supernova simulations and observations
15:45	<i>Invited</i>	S06.2	M. Laming (NRL)	Magnetic fields and particle injection at collisionless shocks
16:10		S06.3	A. Gintrand (CEA)	New self-similar solutions in cooling supernova remnants
16:25		S06.4	A. Poludnenko (Texas A&M U)	Experimental and numerical study of the unconfined deflagration-to-detonation transition in thermonuclear type Ia supernovae
16:40		S06.5	Th. Michel (LULI)	Recent investigations on radiative shocks interacting with an obstacle

May 30 (Wed)

		Session 7 [Radiation]	<i>Chair: F. Wang</i>
8:30	<i>Invited</i>	S07.1 K. Tomida (Osaka U)	Formation of circumstellar disks and non-ideal magnetohydrodynamic effects
8:55	<i>Invited</i>	S07.2 G. Revet (LULI)	Astrophysical relevant laboratory experiment of laser-created plasma interaction with a magnetic field in the context of star formation: jets formation and accretion dynamic
9:20	<i>Invited</i>	S07.3 F. Delahaye (Obs. de Paris)	A quantitative comparison of opacities calculated using the distorted-wave and R-Matrix methods
9:45		S07.4 T. Perry (LANL)	Measurement of iron opacity on the NIF
10:00		S07.5 C. Weber (LLNL)	Stellar-relevant thermonuclear reactivity measurements at the National Ignition Facility
10:15	10:45	Coffee Break	
		Session 8 [Reconnection 2]	<i>Chair: W. Fox</i>
10:45	<i>Invited</i>	S08.1 P. Campbell (U of Michigan)	Relativistic magnetic reconnection driven by high intensity lasers
11:10	<i>Invited</i>	S08.2 J. Zhong (Beijing Normal U)	Laser-driven low beta magnetic reconnection
11:35		S08.3 J. Halliday (Imperial College)	Particle acceleration in high energy density magnetic reconnection experiments
11:50		S08.4 T. Morita (Kyushu U)	Study of driven magnetic reconnection in high-power laser-produced plasma
12:05	13:30	Poster Session 3 & Lunch	
18:00	20:00	Conference Banquet at Kurashiki Kokusai Hotel	

May 31 (Thu)

		Session 9 [Space Plasma]	<i>Chair: Y. Kuramitsu</i>
9:00	<i>Invited</i>	S09.1 Y. Miyoshi (Nagoya U)	Energetic electron accelerations of relativistic electrons observed by the Arase satellite
9:25	<i>Invited</i>	S09.2 A. Kis (RCAES of HAS)	Spacecraft in-situ observations of the terrestrial foreshock: Cluster results
9:50	<i>Invited</i>	S09.3 Z. Yoshida (U of Tokyo)	Laboratory Magnetosphere RT-1: Self-organized magnetic confinement in most natural configuration

10:15		S09.4	Y. Matsumoto (Chiba U)	3D PIC simulations of high-Mach-number shocks and associated electron accelerations
10:30	11:00	Coffee Break		
		Session 10 [EOS 2]		<i>Chair: N. Ozaki</i>
11:00	<i>Invited</i>	S10.1	T. Guillot (OCA)	Unveiling Jupiter's interior with Juno
11:25	<i>Invited</i>	S10.2	M. Millot (LLNL)	Investigating the insulator to metal transition in dense fluid hydrogen with laser-driven dynamic compression
11:50		S10.3	T. Okuchi (Okayama U)	Insulator to semiconductor transition of light and heavy waters at dynamic compression by laser-driven shock wave
12:05		S10.4	B. Militzer (UC Berkeley)	The interior of Saturn and matter at extreme conditions studied with first-principles computer simulations
12:20		S10.5	A. Ravasio (LULI)	Equation of state and optical reflectivity of shock compressed CHNO mixtures
12:35	14:00	Lunch Break		
		Session 11 [New Frontier]		<i>Chair: Y. Li</i>
14:00	<i>Invited</i>	S11.1	T. Grismayer (IST)	Relativistic reconnection in near critical magnetic fields
14:25	<i>Invited</i>	S11.2	L. Gremillet (CEA)	Bright synchrotron sources from structured targets driven by ultraintense lasers
14:50		S11.3	Y. Sentoku (ILE, Osaka U)	keV ion heating in solid iron via radial acoustic waves driven by nano-focused XFEL
15:05		S11.4	E. d'Humieres (U of Bordeaux)	Two photon Breit-Wheeler pair production and beaming in the context of laboratory experiments and active galactic nuclei
15:20	15:50	Coffee Break		
		Session 12 [Magnetic Field]		<i>Chair: S. Lebedev</i>
15:50		S12.1	T. Tao (USTC)	Study on character of ambient gas in planetary nebula morphology with poloidal collimation magnetic field using laser-produced plasma
16:05		S12.2	Q. Moreno-Gelos (CELIA)	New mechanism of magnetic field compression in collisionless magnetosonic shocks
16:20		S12.3	A. Vanthieghem (IAP)	Stability analysis of a periodic system of relativistic current filaments
16:35		S12.4	T. Sano (ILE, Osaka U)	Effects of an external magnetic field on Richtmyer-Meshkov instability in high energy density plasmas
16:50		S12.5	K. F. F. Law (ILE, Osaka U)	Generation of anti-parallel kilo-tesla magnetic field and particle acceleration with laser-driven snail target

Jun 1 (Fri)

Session 13 [Acceleration]				Chair: Y. Fukuda
8:30	Invited	S13.1	B. Shen (Shanghai Normal U)	Collisionless shock acceleration of high-flux quasimonoenergetic proton beams driven by circularly polarized laser pulses
8:55	Invited	S13.2	P. Alves (SLAC)	Efficient non-thermal particle acceleration mediated by the current-driven kink instability in jets
9:20	Invited	S13.3	A. Yogo (ILE, Osaka U)	Extremely-high flux neutron source realized by laser
9:45		S13.4	J. Kirk (MPIK)	Inductive particle acceleration in pulsar winds
10:00	10:30	Coffee Break		
Session 14 [Turbulence 2]				Chair: H.-S. Park
10:30	Invited	S14.1	M. Manuel (General Atomics)	Laboratory astrophysics experiments to study magnetized Rayleigh-Taylor relevant to the Crab nebula
10:55		S14.2	C. Kuranz (U of Michigan)	NIF laboratory astrophysics experiments investigating the effects of a radiative shock on hydrodynamic instabilities
11:10		S14.3	G. Rigon (LULI)	Rayleigh-Taylor instabilities relevant to Supernovae Remnants
11:25		S14.4	T. White (U of Nevada, Reno)	Supersonic plasma turbulence in the laboratory
11:40		S14.5	S. Khan (LLNL)	Generation of non-linear ablative Rayleigh-Taylor growth using laser imprinting at the National Ignition Facility
11:55	13:30	Lunch Break		
Session 15 [Reconnection 3]				Chair: H. Takabe
13:30	Invited	S15.1	W. Fox (PPPL)	Magnetic reconnection in colliding laser-produced plasmas
13:55	Invited	S15.2	S. Tatorica (Stanford U)	Particle acceleration in laser-driven magnetic reconnection
14:20		S15.3	B. Remington (LLNL)	Exploring the universe through Discovery Science on NIF: an overview and highlights
14:35	14:45		B. Remington (LLNL)	Closing Remarks

Poster List

P.01	T. Asahina (ILE, Osaka U)	Simulation study of magnetic field effect on nonlocal heat transport in laser ablation plasma
P.02	A. Bierwage (QST)	Magnetic topology change during large-amplitude Alfvénic oscillations driven by energetic beam ions in a tokamak plasma
P.03	N. Bolouki (National Central U)	Collective Thomson scattering measurements at 100 TW laser facility of NCU to study reflected particles of upstream shocks
P.04	C. Busschaert (CEA)	Radiation magnetohydrodynamics: prospects for laboratory astrophysics given existing scaling laws
P.05	A. Ciardi (Sorbonne U)	Energetic particle dynamics in colliding laser-produced plasma
P.06	F. Coppari (LLNL)	Reference-free EOS measurements from laser-accelerated flyer-plate impact
P.07	S. Egashira (ILE, Osaka U)	Magnetic reconnection driven by high-energy laser beams
P.08	E. Falize (CEA)	Recent laboratory astrophysics studies of accreting magnetized white dwarfs: From VLT observations to Megajoule laser experiments
P.09	Y. Fukuda (KPSI, QST)	Multi-MeV proton beams accelerated by Coulomb explosion of micron-size hydrogen clusters
P.10	C. Garcia (Imperial College)	Simulating super-Alfvénic plasma flows interacting with magnetised obstacles
P.11	D. Gilles (CEA)	HULLAC-v9 and SCO-RCG atomic spectral LTE opacity data for astrophysical and laser applications: results and discussion
P.12	D. Golovin (ILE, Osaka U)	Development of laser driven kilo-Tesla magnetic field generator in micron scale
P.13	S. Habibi (National Central U)	Induced Compton scattering in a laser produced plasma
P.14	M. Hata (ILE, Osaka U)	Kinetic behavior of electron magnetohydrodynamic structures
P.15	Y. Hayashi (ILE, Osaka U)	Numerical simulations of laser wakefield in inhomogeneous plasmas
P.16	N. Higashi (ILE, Osaka U)	Heating a solid isochorically over keV temperature high energy density state by a multi-picosecond intense laser light
P.17	P. Hu (USTC)	Enhancement of laser ablation with an external 9T pulsed magnetic field
P.18	H. Huang (General Atomics)	Pushing the limits in solar opacity target fabrication and metrology

P.19	S. Isayama (National Central U)	Laser-driven ion acceleration with ultra-thin graphene target
P.20	N. Iwata (ILE, Osaka U)	Formation of power law electron energy distribution by relativistic picosecond laser irradiation
P.21	C.-S. Jao (DESY)	Bell' s instability in the laboratory: preparatory investigation
P.22	K. Katagiri (Osaka U)	Phase transitions from graphite to lonsdaleite and diamond
P.23	D. Kawahito (ILE, Osaka U)	Self-organizing high energy density plasma via magnetic reconnection in the laser-irradiated rod target
P.24	M. Koenig (LULI)	Scaling properties of astrophysical blast waves and experimental simulations with nanosecond powerful lasers
P.25	J. Koga (KPSI, QST)	Using relativistic mirrors for photon-photon scattering
P.26	R. Kumar (ILE, Osaka U)	Numerical investigation of collisionless shock ion acceleration in different materials using EPOCH Particle-in-Cell simulations
P.27	Y. Kuramitsu (Osaka U)	Competition of magnetic reconnections driven by self-generated magnetic fields and an external magnetic field
P.28	A. Liao (LANL)	A turbulent dynamo experiment on the OMEGA EP
P.29	C. Liu (Osaka U)	Design of Zeeman spectroscopy experiment with magnetized silicon plasma generated in the laboratory
P.30	Y.-L. Liu (National Central U)	Nonthermal relativistic electron acceleration due to laser-induced incoherent wakefields with external static magnetic fields
P.31	P. Mabey (LULI)	Magnetised jets & reverse shock dynamics
P.32	S. Matsukiyo (Kyushu U)	Acceleration of halo electrons at a high beta low Mach number quasi-perpendicular shock
P.33	C. Matsuoka (Osaka City U)	Nonlinear interfacial motion in magnetohydrodynamic flows
P.34	Th. Michel (LULI)	Recent investigations on radiative shocks interacting with an obstacle
P.35	A. Morace (ILE, Osaka U)	Tailoring beam performance with interfering intense laser beamlets
P.36	S. Morioka (Osaka U)	Equation-of-state measurements for magnesium hydride up to 320 GPa shock pressure
P.37	T. Moritaka (NIFS)	Small-scale magnetospheric structure formation due to laser-produced plasma jet

P.38	K. Nagaoka (NIFS)	Laboratory experiments on fluid convections in a rotating plane cell and a rotating spherical shell with radial gravity
P.39	T. Nishikawa (Osaka U)	Experimental study on transport properties of molten iron alloy
P.40	M. Ota (ILE, Osaka U)	Collisionless electrostatic shock acceleration of proton using high intensity laser LFEX
P.41	F. Otsuka (Kyushu U)	PIC simulation of quasi-parallel terrestrial bow shock
P.42	N. Ozaki (Osaka U)	Infrared velocimetry observation of shock-compressed silicon up to 550 GPa
P.43	A. Pirozhkov (KPSI, QST)	BISER: A new tool for laboratory astrophysics
P.44	D. Russell (Imperial College)	The effect of advected magnetic fields in jet propagation experiments
P.45	C.-M. Ryu (CoReLS, IBS)	Biermann battery effects on the magnetic field amplification by KH (Kelvin-Helmholtz) and RT (Rayleigh-Taylor) instabilities
P.46	O. Saincir (LUTH)	Propagation of shocks through cepheid envelopes
P.47	T. Shioto (ILE, Osaka U)	On a quadratic conservative Vlasov-Maxwell scheme toward large-scale kinetic simulations
P.48	L. Suttle (Imperial College)	The interaction of a magnetized plasma wind with strongly magnetized bodies in HEDP experiments
P.49	N. Tahir (GSI Darmstadt)	Planetary physics research program at facility for antiprotons and ion research at Darmstadt
P.50	K. Takasugi (Nihon U)	Characteristics of hot spot radiation in the divergent gas-puff Z pinch
P.51	T. Takezaki (Nagaoka U of Tech.)	Study on particle acceleration mechanism due to interaction between one-dimensional fast plasma flow and perpendicular magnetic field
P.52	S. Tanaka (Aoyama Gakuin U)	Toward experimental observations of induced Compton scattering
P.53	S. Tomita (Aoyama Gakuin U)	Particle-in-Cell simulation of the Weibel mediated shocks propagating into the inhomogeneous media
P.54	Y. Umeda (Osaka U)	In-situ observations for the formations of chemical bonds under laser shock compression: Implications for chemical evolution of biomolecules by meteorite impacts
P.55	R. Yamazaki (Aoyama Gakuin U)	Thomson scattering measurements of the transition layer of collisionless shocks
P.56	M. Yano (Osaka U)	Interaction between multi-PW class laser pulses and underdense plasmas