

6th East-Asia School and Workshop on Laboratory, Space, Astrophysical Plasmas
July 11 (Mon) - July 16 (Sat), 2016

MONDAY, July 11		
8:50 - 9:10	Registration	
9:10 - 9:15	Opening	
Chair: H. Ji		
9:15 - 10:45	Yoon, P.	Nonlinear Kinetic Turbulence Theory
10:45 - 11:15	Coffee Break	
11:15 - 11:45	Kishimoto, Y.	Magnetic turbulence and self-organization via magnetic reconnection in laser produced non-equilibrium extreme radiation plasma
11:45 - 12:15	Lazarian, A.	Turbulent reconnection and its implications
12:15 - 13:50	Lunch Break	
Chair: R. Matsumoto		
13:50 - 14:20	Kang, H.	Injection Problems in Diffusive Shock Acceleration Theory
14:20 - 14:50	Amano, T.	Particle Acceleration and Transport at Collisionless Shocks
14:50 - 15:10	Seough, J.	Proton temperature-anisotropy-driven instability: Quasi-linear kinetic theory
15:10 - 15:40	Coffee Break	
15:40 - 16:10	Matsukiyo, S.	Roles of microinstabilities in collisionless shocks
16:10 - 16:40	Ji, H.	Frontiers for laboratory study of magnetic reconnection relevant to helio and astrophysics

TUESDAY, July 12		
9:00 - 9:15	Registration	
Chair: S. Matsukiyo		
9:15 - 10:45	Melrose, D.	Magnetic reconnection in solar flares and pulsar magnetosphere
10:45 - 11:15	Coffee Break	
11:15 - 11:45	Kusano, K.	The Onset Mechanism of Solar Eruption
11:45 - 12:15	Song, H. Q.	Magnetic Reconnection and Instability in Solar Eruption
12:15 - 13:50	Lunch Break	
Chair: K. Kusano		
13:50 - 14:20	Hotta, H.	Large-scale MHD simulation of solar convection zone and dynamo
14:20 - 14:40	Yamasaki, K.	Experimental study of electron acceleration mechanism during high guide field reconnection
14:40 - 15:00	Mao, A.	Conceptual Design of the Asymmetric Reconnection EXperiment (AREX)
15:00 - 15:30	Coffee Break	
15:30 - 16:00	Matsumoto, Y.	Three-dimensional structures of high-Mach-number shocks and associated electron accelerations
16:00 - 16:30	Cai, D.	Parallel 3D Electromagnetic Particle-In-Cell Simulation for Relativistic Jets
16:30 - 16:50	Kaothekar, S.	Jeans Instability of a Self-Gravitating Thermally Conducting Viscoelastic Fluid with Radiative Effects

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WEDNESDAY, July 13		
9:00 - 9:15	Registration	
Chair: T. Amano		
9:15 - 10:45	Watanabe, T.-H.	Gyrokinetic simulation of fusion and space plasmas
10:45 - 11:15	Coffee Break	
11:15 - 11:45	Kwon, J.-M.	Bounce-averaged gyrokinetic simulations of tokamak micro-turbulence
11:45 - 12:15	Kim, S. S.	Gyrofluid Simulation of Tokamak Plasma
12:15 - 13:50	Lunch Break	

Parallel Student Session

Student Session A (Room 403) Chair: Song, H. Q.		
13:50-14:05	Shibayama, T.	Fast magnetic reconnection supported by sporadic small-scale Petschek-type shocks
14:05-14:20	Takeshige, S.	The effects of an optically-thin synchrotron radiation cooling in the Petschek type reconnection process
14:20-14:35	Zhou, X.	Electron acceleration by cascading reconnection in the solar corona
14:35-14:50	Muhamad, J.	Simulation Study of Solar Flare Trigger Mechanism
14:50-15:20	Coffee Break	
15:20-15:35	Ishiguro, N.	Double Arc Instability in the solar corona
15:35-15:50	Arai, S.	Solar energy transport with significantly suppressed velocity
15:50-16:05	Choi, G.J.	Role of ExB Shear and Precession Shear in Electron Thermal Internal Transport Barrier Formation

Student Session B (Room 404) Chair: Y. Matsumoto		
13:50-14:05	Ha, S.	Toward the Development of a New MHD Code for Fusion Plasma
14:05-14:20	Hirabayashi, K.	Stratified simulation of collisionless accretion disks by kinetic MHD with anisotropic pressure
14:20-14:35	Peng, C.-H.	Magnetohydrodynamic Simulations of Galactic Prominence with Cooling/Heating processes
14:35-14:50	Xie, W.	Numerical solutions of Neutrino-Dominated Accretion Flows with a Non-Zero Torque Boundary Condition and its applications in Gamma-ray Bursts
14:50-15:20	Coffee Break	
15:20-15:35	Iwamoto, M.	A large-amplitude electromagnetic wave excited in relativistic shocks
15:35-15:50	Tomita, S.	Particle in Cell Simulation of the Weibel Instability Driven by Spatially Anisotropic Structures
15:50-16:05	Kawahito, D.	Characteristics of radiation in non-equilibrium plasma produced by high intensity laser

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THURSDAY, July 14		
9:00 - 9:15	Registration	
Chair: K. Ida		
9:15 - 10:45	Kawazura, Y.	Particle acceleration in laboratory magnetosphere
10:45 - 11:15	Coffee Break	
11:15 - 11:45	Xiao, C.	Plasma rotation in the PKU Plasma Test Device
11:45 - 12:15	Saitoh, H.	Toward creation of electron-positron plasmas in a laboratory
12:15 - 13:50	Lunch Break	
Chair: C. Xiao		
13:50 - 14:20	Ida, K.	Explore of magnetic topology by heat pulse propagation method
14:20 - 14:40	Ido, T.	Abrupt excitation of a subcritical instability in magnetically confined plasmas in the LHD
14:40 - 15:00	Nagaoka, K.	Experimental Study of Turbulent Transport and the Effect of Rotation in an Eelectro-Convection
15:00 - 15:30	Coffee Break	
15:30 - 16:00	Kuramitsu, Y.	Turbulent wakefield acceleration of relativistic particles
16:00 - 16:20	Sano, T.	High Power Laser-Plasma Interaction under a Strong Magnetic Field
16:20 - 16:40	Iwata, N.	Radiation reaction in interactions between ultrahigh intensity laser fields and cluster media

FRIDAY, July 15		
9:00 - 9:15	Registration	
Chair: M. Hoshino		
9:15 - 10:45	Lu, Q.	Electron Acceleration in Collisionless Reconnection
10:45 - 11:15	Coffee Break	
11:15 - 11:45	Ryu, D.	Magnetic Fields in the Large-Scale Structure of the Universe
11:45 - 12:15	Lei, W.-H.	Tidal disruption events with a relativistic jet
12:15 - 13:50	Lunch Break	
Chair: D. Ryu		
13:50 - 14:20	Matsumoto, R.	Plasma Dynamics in Accretion Disks
14:20 - 14:50	Li, Z.	High Energy Neutrino Astronomy
14:50 - 15:10	Tanaka, S. J.	Induced Compton Scattering off Anisotropic Radiation
15:10 - 15:40	Coffee Break	
15:40 - 16:10	Shibata, K.	Magnetic Reconnection in Solar and Astrophysical Plasmas
16:10 - 16:30	Hoshino, M.	Particle Acceleration of Driven Magnetic Reconnection

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Poster Session (MONDAY afternoon to THURSDAY morning)		
P-01	Choi, J.	Transient time scale of poloidal Alfvén waves in dipole geometry
P-02	Kaneda, K.	Polarization Characteristics and Depolarization Processes of Zebra Pattern in Type IV Solar Radio Bursts
P-03	Kato, Y.	X-ray observation of shocks within the plasma in clusters of galaxies
P-04	Kumthekar, B. K.	The Role of Diffusivity and Viscosity in Solar Plasma
P-05	Lee, K. P.	Gyro-kinetic Study of Residual Zonal Flow for Slowing down Distribution Function
P-06	Ozawa, N.	Observation of Azimuthal Doppler Effect by Optical Vortex
P-07	Shibayama, T.	Fast magnetic reconnection supported by sporadic small-scale Petschek-type shocks
P-08	Shimoda, J.	Importance of Richtmyer-Meshkov Instability on measurements of Cosmic-Ray acceleration efficiency at Supernova Remnants
P-09	Tanaka, S. J.	A Stochastic Acceleration Model of Radio Emission from Pulsar Wind Nebulae
P-10	Xie, W.	Numerical solutions of Neutrino-Dominated Accretion Flows with a Non-Zero Torque Boundary Condition and its applications in Gamma-ray Bursts
P-11	Zaitsev, I.	Numerical investigation of slow-mode shock waves in 1D simulations of thin current layer decay
P-12	Zhang, P.	Radio emission processes and magnetic field measurement of an M-class flare on August 27 2015
P-13	Kin, F.	Phase relation between Density and Potential fluctuations in Streamer