

PROGRAM

MONDAY (July 30) : Modeling, Simulations, and Experiments in Plasmas

TIME	NAME	TITLE
08:10 –		Resistration
09:00 – 09:05	Jungyeon Cho	Opening Remarks
09:05 – 09:15	Deog-Seong Oh (President of CNU)	Congratulatory Remarks

Morning Session

Chair: Chang Hee Nam

TIME	NAME	TITLE
09:15 – 10:35	Ethan Vishniac	Symmetry, Self-Organization, and the Large Scale Dynamo
10:35 – 10:50		Coffee Break
10:50 – 12:10	Taik Soo Hahm	Introduction to tokamak core plasma turbulence and transport
12:10 – 13:40		Lunch

Afternoon Session I

Chair: Jungyeon Cho

TIME	NAME	TITLE
13:40 – 15:00	Jae-Min Kwon	Introduction to kinetic simulation of magnetized plasma
15:00 – 15:20	Dong-Ho Park	Magnetic island structure effect on runaway electron confinement
15:20 – 15:40	Chang-Mo Ryu	FLASH simulations of magnetic generation and amplification in plasma jets for laboratory astrophysics
15:40 – 15:55		Coffee Break

Afternoon Session II

Chair: Chang-Mo Ryu

TIME	NAME	TITLE
15:55 – 16:20	Chang Hee Nam	Relativistic Laser Plasma Explored with PW lasers
16:20 – 16:45	Young-chul Ghim	Critically balanced turbulence in fusion-grade plasmas
16:45 – 17:10	Gunsu Yun	Ion cyclotron harmonic waves in the boundary of magnetized plasmas
17:10 – 17:35	Makoto Sasaki	Dynamics of turbulence interacting with zonal flows
17:35 – 17:55	Chul Min Kim	Strong gamma rays from a double-layer target irradiated by an ultra-intense laser pulse and their use for producing pair plasmas

TUESDAY (July 31) : Waves, Particles, and Magnetic Fields in Plasmas

Morning Session

Chair: Quanming Lu

TIME	NAME	TITLE
09:00 – 10:20	Masahiro Hoshino	Plasma Heating and Particle Acceleration during Magnetic Reconnection
10:20 – 10:35	Coffee Break	
10:35 – 11:55	Hui Li	Particle Energization in Different Turbulent Environments
11:55 – 12:05	Group Photo	
12:05 – 13:40	Lunch	

Afternoon Session I

Chair: Masahiro Hoshino

TIME	NAME	TITLE
13:40 – 15:00	Yoshiharu Omura	Nonlinear Wave-Particle Interactions in Earth's Inner Magnetosphere
15:00 – 15:25	Xinliang Gao	Nonlinear processes related to whistler waves in the Earth's magnetosphere
15:25 – 15:45	Mijie Shi	The parametric decay instability of Alfvén waves in turbulent plasmas
15:45 – 16:00	Coffee Break	

Afternoon Session II

Chair: Hui Li

TIME	NAME	TITLE
16:00 – 16:25	Quanming Lu	Energetic electrons during multiple X line reconnection
16:25 – 16:50	Shinji Saito	The influence of intermittent nature of magnetosonic-whistler turbulence on ion dynamics
16:50 – 17:15	Bo Li	Seismological applications of sausage waves for inferring the physical parameters in solar coronal structures

WEDNESDAY (Aug. 1) : Particles, Turbulence, and Magnetic Fields in Plasmas

Morning Session

Chair: Dongsu Ryu

TIME	NAME	TITLE
09:00 – 10:20	Tom Jones	TBD
10:20 – 10:35	Coffee Break	
10:35 – 11:55	Gianfranco Brunetti	Turbulent acceleration and the physics of extragalactic radio sources
11:55 – 12:15	Thiem Hoang	Acceleration of Charged Dust Grains in Magnetized Turbulent Plasma
12:15 – 13:40	Lunch	

Afternoon Session I

Chair: Ryoji Matsumoto

TIME	NAME	TITLE
13:40 – 15:00	Alex Lazarian	Studying 3D Distribution of Magnetic Fields in Diffuse Media and Molecular Clouds
15:00 – 15:20	Hyeseung Lee	Study of MHD turbulence using synchrotron polarization
15:20 – 15:40	Diego F Gonzalez-Casanova	The VGT in proto-stellar disk environments
15:40 – 15:55	Coffee Break	

Afternoon Session II

Chair: Xueshang Feng

TIME	NAME	TITLE
15:55 – 16:20	Ryoji Matsumoto	Radiation Magnetohydrodynamic Simulations of Black Hole Accretion Disks
16:20 – 16:45	Dongsu Ryu	Turbulence and Magnetic Fields in the Outskirts of Clusters of Galaxies
16:45 – 17:10	Hyesung Kang	Proton Injection and Acceleration in Weak ICM shocks
17:10 – 17:35	Takanobu Amano	Stochastic shock drift acceleration for electrons
17:35 – 17:55	Jungyeon Cho	Removing Large-scale Variations in Observations
19:00 –	Conference Dinner (Intercity Hotel)	

THURSDAY (Aug. 2) : Particles, Turbulence, and Magnetic Fields in Plasmas

Morning Session

Chair: Yoshiharu Omura

TIME	NAME	TITLE
09:00 – 10:20		Discussion
10:20 – 10:35		Coffee Break
10:35 – 11:55	Yao Chen	Initiation and Energy Release of Solar Coronal Mass Ejections and Relevant Solar Radio Bursts
11:55 – 12:15	Jeongwoo Lee	The Onset of Solar Magnetic Eruptions
12:15 – 13:40		Lunch

Afternoon Session I

Chair: Siming Liu

TIME	NAME	TITLE
13:40 – 15:00	Joerg Buechner	TBD
15:00 – 15:20	Hongyu Liu	A Solar Stationary Type IV Radio Burst and Its Radiation Mechanism
15:20 – 15:40	Veluchamy Vasanth	Coronal Signatures of a Flare Generated Type-II Solar Radio Burst
15:40 – 15:55		Coffee Break

Afternoon Session II

Chair: Takanobu Amano

TIME	NAME	TITLE
15:55 – 16:20	Jongchul Chae	Observations and Theory of Three-minute Oscillations in the Solar Chromosphere
16:20 – 16:45	Siming Liu	Evolution of high-energy particle distribution in SNRs
16:45 – 17:10	Shuta Tanaka	The Crab Nebula with tangled magnetic field: its radio emission and confinement by its supernova remnant
17:10 – 17:35	Siyao Xu	TBD
17:35 – 18:00	Yong-Joo Rhee	Kerr metric and quadratic curvature invariant of rotating black hole

FRIDAY (Aug. 3) : Particles, Turbulence, and Magnetic Fields in Plasmas

Morning Session

Chair: Jongchul Chae

TIME	NAME	TITLE
09:00 – 10:20	Peter H Yoon	Kinetic space plasma turbulence
10:20 – 10:45	Kanya Kusano	Toward the solar flare prediction based on the critical condition of MHD instability
10:45 – 11:00	Jungyeon Cho	Closing Remarks
11:00 –	Lunch and/or Excursion	

POSTERS

NAME	TITLE
LongLong Sang	Quadrupolar and sextupolar Hall magnetic field during asymmetric magnetic reconnection without a guide field
Heesu Yang	Observation of the Kelvin–Helmholtz Instability in a Solar Prominence
Isaac Habumugisha	The Effect of Pressure Gradient Force on an Accretion Disk Surrounding a Magnetized Neutron Star
Li-Hsin Chen	Formation of the First Galaxies
Ruo-Yu Liu	Two-dimensional simulations of circumstellar material collisions from exploding stars
Lochan Khanal	Study of ambient environment around Asymptotic Giant Branch Carbon Star using IRAS survey
Yudong Luo	Big Bang Nucleosynthesis with an Inhomogeneous Primordial Magnetic Field Strength
Junho Shin	Off-Axis Characteristics of Japanese Grazing Incidence Mirror Telescopes for X-Ray Solar Physics
Heesun Yoon	Density and Magnetic Field Correlation in MHD Turbulence
Jongkil Lee	Space Weather Operation at KASI with Van Allen