

Invited Speakers List

Category	Name	Affiliation	Talk title
CD	Hiroyuki Arakawa	Teikyo University	Wave, flow and vortex: the third structure in drift wave turbulence
CD	T. Yamada	Kyushu University	Three Dimensional Structure of Streamer in Drift Wave Fluctuations
CD	Y. Kosuga	Kyushu University	How secondary flow is selected in drift wave turbulence: Role of parallel flow shear
CD	Ashwin Joy	Indian Institute of Technology	Phase Transitions in Active Matter Systems
CD	Shi-ichi Takehiro	Kyoto University	Thermal convection and induced mean zonal flows in rotating spherical shells
CD	Hidenori Aiki	ISEE, Nagoya U.	Towards a seamlessly diagnosable expression for the energy flux associated with both equatorial and mid-latitude waves
CD	Kumiko Hori	KOBE U.	Slow magnetic Rossby waves in Earth's core
CD	Jiayong Zhong	Beijing Normal University	Particles Acceleration during Laser Driven Magnetic Reconnection in a Low-beta Plasma
CD	M. Jiang	SWIP	Multi-scale interactions between magnetic island and turbulence on HL-2A tokamak
CD	Zhibin Guo	Peking University	How Toroidal Coupling Induces Phase Jumps and Zonal Flow Shear Layer Patterns
CD	Norman M. Cao	MIT	Observation and Quasilinear Modeling of Rotation Reversal Hysteresis in Alcator C-Mod Plasmas
CD	Rameswar Singh	UCSD	Intrinsic parallel current generation from ETG turbulence in a cylindrical plasma
CD	Yign Noh	Yonsei University	LES of Turbulent Particle-Laden Flows in Nature: from Plankton to Clouds
CD	Eunok Yim	EPFL	Global stability of pancake vortices in rotating and stratified fluids
CD	CS Liu	University of Maryland	Nonlinear development of Stimulated Raman Backscattering Instability with trapped electrons
CD	Won-Ha Ko	NFRI	Rotation and momentum transport in magnetic confined plasmas
CD	S. Cappello	Consorzio RFX	Magnetic self-organization in confined plasmas
CD	Richard Sydora	University of Alberta	Kinetic Theory and Simulation of the Current Sheet Shear Instability in 3D Magnetic Reconnection
CD	Takahiro Iwayama	Fukuoka University	Forced-dissipative turbulence governed by generalized two-dimensional fluid systems
CD	Yoshi-Yuki HAYASHI	Kobe University	Turbulence, waves and momentum transfer in geophysical fluids
CD	M. Zhang	National Astronomical Observatories, CAS	Helicity transport from the solar convection zone to interplanetary space
CD	PF Chen	Nanjing University	Magnetic self-organization and reconnection in the solar atmosphere
CD	Hiroshi Niino	Atmosphere and Ocean Research Institute (AORI), University of Tokyo	Tornadoes: Their Structure, Genesis Mechanism and Environment
CD	G. Dif-Pradalier	CEA/IRFM	Global Staircase Organization in Magnetized Plasmas
Category	Name	Affiliation	Talk title
F	Shinya Maeyama	Nagoya University	Effects of electron-scale turbulence on ion-scale turbulence in Tokamak plasmas
F	P. Hennequin	Ecole Polytechnique	Overview of plasma turbulence structure studies in the ASDEX Upgrade tokamak
F	Cami S. Collins	GA	Optimizing future burning plasmas through experiments to understand & control transport of fast ions by Alfvén eigenmodes
F	Tatsuya Kobayashi	NIFS	Experimental investigation of the L-H transition dynamics
F	Pengjun Sun /ASIPP	ASIPP	Experimental Study of Multi-scale Interaction between (Intermediate, Small)-scale Microturbulence and MHD modes in EAST Plasmas
F	Zhisong Qu / R. Dewar	ANU	Energetic Geodesic Acoustic Mode (EGAM) as a two-stream instability and EGAM linear mode study in various regime
F	Emily A. Belli / C. Angioni	General Atomics	Impact of centrifugal drifts on ion turbulent transport
F	Zhiyong Qiu	Zhejiang University	Nonlinear decay and plasma heating by toroidal Alfvén eigenmode
F	TS Hahm / X. Garbet	Seoul National University	Modern gyrokinetic description of residual zonal flows
F	Y. Ono	U. Tokyo	Direct access to the burning plasma by high-power reconnection heating of merging tokamaks.
F	Naoki Sato	U. Tokyo	Statistical Mechanics of Topologically Constrained Systems: Application to Self-Organizing Diffusion in Plasmas
F	Matthew Hole	ANU	<i>Energetic particle driven mode activity: advances in understanding from linear through hard nonlinear regime</i>

F	Makoto Sasaki	Kyushu University	Selection of flow chirality in drift-mode and D'Angelo-mode fluctuations
F	Ruirui Ma	SWIP	Theoretic study of the nonlinear energetic particle mode dynamics in tokamaks
F	Y. Kawazura	Rudolf Peierls Centre for Theoretical Physics, University of Oxford	Relativistic Extended Magnetohydrodynamics: action formalism and physical properties
F	Kaijun Zhao	SWIP	Sawtooth heat pulses interacting with plasma flows, turbulence, and gradients in the tokamak edge plasmas
F	Lai Wei	Dalian University of technology	Nonlinear interaction between drift-tearing-modes and slab-ITG-modes
F	Y. Yatsuyanagi	Shizuoka University	Correlation function in long-range interacting point vortex system
F	David Zarzoso	Aix-Marseille Université	Impact of energetic geodesic acoustic modes on transport in fusion plasmas
F	S. Usami	NIFS	Particle Simulation Studies on Effective Ion Heating during Magnetic Reconnection
F	Hogun Jhang	NFRI	Magnetic field stochastization and transport process during edge pedestal collapse simulations
F	Jianxing Li	Xi'an Jiaotong University	Attosecond Gamma-ray generation via nonlinear Compton scattering and single-shot carrier-envelope phase determination of long PW laser pulses
F	Sumin Yi	NFRI	A gyrokinetic simulation study of parallel flow fluctuation effects on zonal flow generation
F	CZ Cheng	NCKU	Heating/Acceleration of Electrons and Ions in Driving Magnetic Reconnection
Category	Name	Affiliation	Talk title
SA	Alard Jan van Marle	UNIST	Using combined PIC and MHD to model particle acceleration in galaxy cluster shocks.
SA	Alina Donea	Monash University	Waves and solar flare seismology from photosphere to corona
SA	F. Zuccarello	KU Leuven	Numerical modeling of the initiation of Coronal Mass Ejections
SA	Chun Xia	Yunnan University	MHD simulations on the origin and dynamics of solar prominence plasma
SA	Yao Chen	Shandong University	Moving Type-IV Solar Radio Bursts: Observational Characteristics and Possible Emission Mechanism
SA	Xin Cheng	Nanjing University	Fractal Magnetic Reconnection in a Current Sheet
SA	Yusuke Tsukamoto	Kagoshima University	The formation of protostars and protoplanetary disks with all the three non-ideal MHD effects
SA	Kazunari Iwasaki	Osaka University	The phase transition dynamics and the formation of magnetized molecular clouds in the interstellar medium
SA	Hui Tian	Peking University	Observations of magnetic reconnection in the partially ionized lower solar atmosphere
SA	Jun Lin	Yunnan Astronomical Observatories	Multiple-scale Physics of Coronal Mass Ejection
SA	Takanobu Amano	The University of Tokyo	Particle-in-cell simulations for high Mach number shocks
SA	Cong Yu	Sun Yat-Sen University	Twisted induced Eruptions in magnetars
SA	Dongsu Ryu	UNIST	PIC simulations of collisionless shock waves in clusters of galaxies
SA	H. Hotta	Chiba University	High Resolution Simulations of Solar Convection Zone and Dynamo
SA	J. Cho	Chungnam National University	Measuring properties of magnetic fields in astrophysical fluids
SA	Jiansen He	Peking University	Energy dissipation and distribution among particle species for Alfvénic turbulence at kinetic scales in wavenumber space
SA	Daniel Price	Monash University	Modeling star formation from first principles
SA	T. Suzuki	University of Tokyo	Global Simulations of Magnetic Activities in the Galactic Central Region
SA	JC Chae	Seoul National University	Observations and Theory of Three-minute Oscillations in the Sunspot Chromosphere
SA	Tetsuya Magara	Korea Astronomy and Space Science Institute	Evolution of Solar Magnetic Fields - From Emergence to Eruption
SA	S.Takasao	Nagoya University	MHD waves and shocks associated with solar reconnection as a model of solar flares
SA	Yutaka Ohira	The University of Tokyo	Particle accelerations, plasma instabilities, and collisionless shocks in partially ionized plasmas
SA	Feng Yuan	Shanghai Astronomical Observatory	Numerical simulation of black hole accretion disks

Category	Name	Affiliation	Talk title
A	Erik JOHNSON	Ecole Polytechnique	Tailored Voltage Waveform plasmas for Control of Surface Processing
A	Changlun Chen	ASIPP	The preparation and functionalization of nano- materials with plasma technique and their application in environmental pollutant treatment
A	Xiao Xia Zhong	Shanghai Jiaotong University	Micoplasma in close proximity to liquid and its applications in synthesis of nanomaterials
A	Lanbo Di	Dalian University	Atmospheric-pressure cold plasma for synthesizing supported metal catalysts with the assistance of ethanol
A	Hitoshi Tamura	Hitachi High-Technologies Corporation	Study on uniform plasma generation mechanism of Electron Cyclotron Resonance etching reactor
A	D. Subedi	Kathmandu University	Generation of dielectric barrier discharge (DBD) at near atmospheric pressure and its application for surface treatment of polymers
A	Giichiro Uchida	Osaka University	Production control of reactive oxygen and nitrogen species in liquid water by using a nonthermal plasma jet
A	N. Itagaki	Kyushu University	Sputter epitaxy of high quality (ZnO) _x (InN) _{1-x} : a new semiconducting material for excitonic devices
A	Kateryna Bazaka	Queensland University of Technology	Plasma-activated small molecules
A	Dehui Xu	Xi'an Jiaotong University	Regulation of reactive species in gas plasma and the application in tumor therapy
A	Maik Froehlich	INP Greifswald	A combined PIII and HiPIMS plasma source for thin film deposition
A	Weizong Wang	Beihang University/ University of Antwerp	Plasma based CO ₂ conversion into value added products: better insights from computer modelling
A	M. Shinohara	National Institute of Technology, Sasebo College	Plasma induced surface reaction, considered with multiple-internal-reflection infrared absorption spectroscopy
A	Qiuyue Nie	Harbin Institute of Technology	Experimental studies on electromagnetic radiation intensification in GHz band by sub-wavelength plasma structures
A	Hiroataka Toyoda	Nagoya University	Influence of magnetic field on high-energy negative ion behavior in magnetron plasma with oxide targets
A	Suresh C. Sharma	Department of Applied Physics, Delhi Technological University	Effect of doping on the Growth and Electronic Properties of Graphene-Carbon Nanotube Hybrid
A	He-Ping Li	Tsinghua University	Non-equilibrium Characteristics of Atmospheric-Pressure Thermal Plasmas
A	Shuyan Xu	Nanyang Technological University	Design and test of miniaturized plasma thrusters at the Plasma Sources and Applications Centre, Singapore
A	S. Sharma	IPR	A magnetic field augmented single frequency capacitively coupled plasma device
A	EH Choi	Kwangwoon University	Plasma Medicine and its Mechanism for Cancer Therapy
A	Maxime Mikikian	University Orleans	In-situ observation and diagnostics of nanoparticle forming plasmas in hydrocarbon containing gas mixtures
A	Shinya Iwashita	Tokyo Electron Technology Solutions Ltd.	Ion energy control in capacitively coupled discharges for PEALD processes
A	Kuniko Urashima	National Institute of Science and Technology Policy	Critical review of plasma technologies for industrial applications
A	Yu-Ru Zhang	Dalian University of Technology	Plasma characteristics in an electrically asymmetric capacitive discharge sustained by multiple harmonics: operating in the very high frequency regime
Category	Name	Affiliation	Talk title
L	Takayoshi Sano	Osaka University	Interfacial magneto-hydrodynamic instabilities in astrophysical and laser plasmas
L	P. Tzeferacos	The University of Chicago	Dynamo amplification of magnetic fields in a turbulent laser produced plasmas
L	Wing-Huen Ip	National Central University	An Overview of the Surface Irradiation and Charging of Icy Moons and Ring Particles
L	Katsuji Koyama	Kyoto University	Astrophysical Plasma in Supernova Remnants, Galactic Center and Protostars
L	Hantao Ji	PPPL	Tbd.
L	Joerg Buchner	Max-Planck-Institut für Sonnensystemforschung	Tbd
L	Peter A Norreys	Rutherford Appleton Lab.	Overview of some key achievements on the route to IFE

L	Yutong Li	IOP, CAS	Novel large-energy terahertz radiation sources from intense laser-foil interactions
L	M. Koenig	Ecole Polytechnique	Collaboration experiments at LULI
L	T. Yabuuchi	RIKEN Spring-8 Center	Current status of experimental platform for laser-based plasma physics at the XFEL facility SACLA
L	Mitsuo Nakai	ILE, Osaka	Users program using GXII and LFEX at ILE
L	Bruce Remington	LLNL	Discovery Science program on the NIF
L	A. Macchi	National Institute of Optics, NRC	Laser driven Ion Acceleration Mechanisms
L	Il Woo Choi	GIST	Laser-driven ion acceleration from the interaction of ultrashort ultrahigh-contrast multi-petawatt laser and thin solid target
L	Dieter Hoffman	Xi'an Jiaotong U.	Overview of the heavy ion beam plasma research
L	Shinsuke Fujioka	ILE Osaka	FIREX (Fast Ignition Realization EXperiment) project in Japan
L	F. Albert	LLNL	Betatron x-ray radiation in the self-modulated laser wakefield acceleration regime: prospects for a novel probe at large scale laser facilities
L	Farhat Beg	UC SD	High Energy Density Physics
L	O.L. Landen	LLNL	Indirect-Drive ICF Progress at NIF
L	Frederico Fiuza	SLAC National Accelerator Laboratory	Advances in experiments and simulations on astrophysical relevant particle accelerations using laser plasmas
L	L. Romagnani	Ecole Polytechnique	Dynamics of the Electromagnetic Fields induced by Fast Electrons propagation in Near Solid-Density Media
L	Marija Vranic	Universidade de Lisboa	Laser-particle interactions at extreme intensities
L	R. Alessandra	LULI (France)	Warm Dense Matter Studies relevant for planetary science
L	Alexey Arefiev	UCSD	Leveraging extreme laser-driven magnetic field for intense gamma-ray generation
L	Gianluca Sarri	Queen's University Belfast	Experimental investigation of strong radiation reaction in the field of an ultra-intense laser
L	Atul Kumar	IPR	In-Situ Ion Heating With Pulsed CO ₂ Lasers
L	Alexis Casner	CELIA (France)	Turbulent Hydrodynamics Experiments in High Energy Density settings
L	T. Blackburn	Chalmers University	Radiation reaction in laser-electron beam interactions
L	Natsumi Iwata	Osaka University	Physics of relativistic picosecond laser interaction with dense plasma
L	Derek Schaeffer	PPPL	Experimental studies of high Mach number collisionless shocks in magnetized plasmas
L	Alec Thomas	University of Michigan	Tuning laser wakefield driven betatron x-rays for imaging application
L	Y. Mori	The Graduated School for the Creation of New Photonics Industries	Compact Fast Ignition experiments using Joule-class drive pulses under counterbeam configuration
L	Limin Chen	Institute of Physics, CAS	Gamma ray emission from wakefield accelerated electrons wiggling in laser filed
L	B. Qiao	IAPCM	Stable laser ion radiation pressure acceleration
L	M. Nishiuchi	QST	Ion acceleration experiments with high contrast high intensity laser system "J-KAREN-P" --How the finite contrast condition affects the laser matter interaction—
L	G. Fiksel	U. Michigan	Turbulent magnetic reconnection initiated by kinetic instabilities in colliding laser-produced plasmas
L	Shohei Sakata	Osaka University	Efficient creation of ultra-high-energy-density states by magnetized fast isochoric laser heating
L	Ram Gopal	Tata Institute of Fundamental Research	Intense Laser Plasma interactions with kHz, mJ class lasers
L	Woosuk Bang	GIST	Rapid and uniform heating of matter with a laser-driven ion beam
L	Luca Volpe	CLPU & University of Salamanca	Recent advancement at CLPU Salamanca
L	Su-Ming Weng	Shanghai Jiao Tong University	Magnetic controlling of high-power laser pulses and their interactions with plasmas
L	T. Ostermayr	Universität München	Relativistic laser interaction with isolated micro-plasma

Category	Name	Affiliation	Talk title
S	Hamid Saleem	IST, Pakistan ^(SEP)	Ions shear flow and electron field-aligned current produce ion acoustic waves in the oxygen-hydrogen ionospheric plasma
S	Vipin K Yadav	SPL / VSSC / ISRO / DOS	Plasma Waves in Universe
S	Meng Zhou	Nanchang University	MMS Observations of Magnetic Reconnection
S	Akira Kageyama	Kobe University	MHD relaxation and dynamo in a sphere
S	Igor Levchenko	Nanyang Technological University	Space Plasma Propulsion for Cubesats and small satellites
S	Bruce Tsurutani	Caltech	The Evolution of Cometary and Interplanetary Plasma Turbulence From Experimental Observations: A New Scenario
S	Tohru Hada	Kyushu University	Anomalous transport of cosmic rays in MHD turbulence
S	Yasuhiro Nariyuki	University of Toyama	Damping processes of large amplitude Alfvén waves in the solar wind
S	S. Matsukiyo	Kyushu University	Microstructure of high beta quasi-perpendicular shock and associated electron dynamics
S	EW Kim	PPPL	Full-wave modeling of ULF wave propagation in the Earth's magnetosphere
S	Hyomin Kim	New Jersey Institute of Technology	Van Allen Probes observations of wave and particle dynamics in the ring current of the Earth's magnetosphere
S	Takanobu Amano	The University of Tokyo	Particle-in-cell simulations for high Mach number shocks
S	Kunihiro Keika	The University of Tokyo	Mass and charge dependent characteristics of Earth's magnetospheric plasma
S	Xuzhi Zhou	Peking University	Resonant interactions between charged particles and ULF waves: theory and observations
S	Jongho Seon	Kyung Hee University	Space weather monitor KSEM on board the Korean geostationary satellite GEO-KOMPSAT-2A
S	Patrick Astfalk	Max Planck IPP	Kinetic Instabilities in Space Plasmas: Towards Maximum Realism
S	Chris Crabtree	NRL	Nonlinear Whistler Wave Physics in the Laboratory and in the Radiation Belts
S	Y. Miyoshi	Nagoya University	Tbd
S	Paul Cally	Monash University	Stairway to Heaven: Multistage propagation of Waves from the Solar Interior to the Corona
S	Yuming Wang	USTC	Tbd
S	Zhigang Yuan	School of Electronic Information, Wuhan University	Recent progress in magnetospheric EMIC waves
S	Feng xueshang	National Space Science and Technology Center	data driven simulation of solar wind
S	Y. Omura	Kyoto University	plasma waves with focus on the radiation belts dynamics
S	Yusuke Ebihara	Kyoto University	magnetospheric dynamics by MHD simulations

CD	Cross Disciplinary
F	Fundamental plasma
B	Basic plasma
A	Applied plasma
L	Laser plasma
S	Space & Geomag plasma
SA	Solar/Astro plasma
MF	Magnetic Fusion plasma