

## AAPPS-DPP2025 Plenary Speakers

2025.06.02 AAPPS-DPP Program Committees

CD: Vladimir Rosenhaus	CUNY	Theory of wave turbulence
CD: Ting Long	Southwestern Institute of Physics	Studies of cross phase in turbulent Reynolds stress and particle flux in the edge of tokamak plasma
CD: Julian Mak	HKUST	Relaxation and equilibration of baroclinic flows
F: Anna Tenerani	The University of Texas at Austin	Compressible effects in solar wind turbulence
F: Colin Roach	UK Atomic Energy Authority	Recent Progress in our Understanding of Electromagnetic Turbulence in a Conceptual Spherical Tokamak FPP (STEP)
F: Mahendra Verma	IIT, Kanpur	Kolmogorov-like turbulence in magnetohydrodynamics
B1: Haiqing Liu	Institute of Plasma Physics, CAS	Progress on Burning Plasma Diagnostic Design for CFETR
B1: Takahiro Miyoshi	Hiroshima University	The HLLD solver: 20 years and beyond
B1: Brendan C. Lyons	General Atomics	Pulse Design and Digital Twin Capabilities of the FUSE Integrated-Modeling Framework
B2: Edward Thomas	Auburn University	Magnetization of electrons and ions and their influence on dusty plasmas
B2: Lorin Matthews	Baylor University	Charging and Transport of Dusty in Plasma: beyond the basics
B2: Yan Feng	Soochow University	From supercritical transition of dusty plasmas to diffusion mechanism of 2D fluids
A1: Ya Zhang	Wuhan University of Technology	Numerical Study of RF Plasmas using PIC/MCC Simulations with External Circuitry
A1: Erik Wagenaar	University of York	Towards control of plasma chemistry in low-temperature plasmas
A1: Ramses Snoeckx	Empa,	Kinetic and thermodynamic insights into plasma-based gas conversion
A2: Bornali Sarma	University of Delhi	Fabrication of TENG inspired Ag-Cu coated banana fabric textile for wearable and sustainable Bio Sensor adopting plasma sputtering technology
A2: Kamatchi Sankaranarayanan	IASST	Synergistic Integration of Biophysics and Plasma Physics: Advancing Biomolecular Applications with Cold Plasma Technology
A2: Joanna Pawlat	Lublin University of Technology	Application of Non-Thermal Plasma in Food Treatment and Biological Material Conditioning
L1: Tobias Dornheim	CASUS Görlitz and Helmholtz	Toward predictive first principle simulations of warm dense matter
L1: Alexey Arefiev	University of California San Diego	Exploring new physics regimes with ultra-high-intensity laser-plasma interactions
L1: Natsumi Iwata	The University of Osaka	Mesoscale laser plasma physics explored by kJ petawatt lasers
L2: Gianluca Gregori	Oxford U	Laboratory astroparticle physics: from the stability of laboratory blazar's jets to heavy axion searches
L2: Jamie Rosenzweig	UCLA	Plasma Wakefield Accelerators in Application: the Road to Discovery Science
L2: Min Chen	Shanghai Jiao Tong university	Laser wakefield based axion-like particle generation and detection
SG: Linghua Wang	Peking University	Interplanetary energetic electrons
SG: Xinlin Li	University of Colorado Boulder	The Continuing Journey of REPTiles (Relativistic Electron and Proton Telescope Integrated Little Experiments): Achievements and Future Impact
SG: Nareshpal Saini	Guru Nanak Dev University, Amritsar	Breather Structures and Peregrine Solitons in a Polarized Space Dusty Plasma
SA: Mark Cheung	CSIRO Space & Astronomy	Data-driven Modelling of Solar Eruptive Flares
SA: Hiroya Yamaguchi	JAXA/ISAS	X-Ray Imaging and Spectroscopy Mission (XRISM): High-Resolution Spectroscopy of Astrophysical Plasmas
SA: Ying Li	Purple Mountain Observatory, CAS	The solar white-light flares observed by ASO-S
MF1: Wei Chen	Southwestern Institute of Physics	Density Limit Disruption Induced by Core-localized Alfvénic Ion Temperature Gradient Instabilities on HL-2A
MF1: Felix Warmer	Max Planck Institute for Plasma Physics	Latest performance achievements of the Wendelstein 7-X Stellarator
MF1: Yasushi ONO	University of Tokyo	Magnetic Reconnection for Fusion Plasma Ignition and Current Drive
MF2: Francesco Romanelli	Università degli Studi di Roma	DTT a facility to investigate heat exhaust solutions for fusion power plants
MF2: Andreas Kirschner	Forschungszentrum Jülich GmbH	Review of prompt redeposition in fusion devices with focus on tungsten-based plasma facing components
MF2: Felix Parra	Princeton Plasma Physics Laboratory	Finite gyro-radius and mean-free-path layers on tokamak walls