Plasma Physics

Auditorium

PP	Oct 20	Oct 21	Oct 22	Oct 23	Oct 24
Chair	Plenary Session				Haotian Chen
09:00-09:25					Annika Ekedahl
09:25-09:40					Jianping Mu
09:40-09:55					Liqing Xu
09:55-10:10					Ming Xu
10:10-10:25					Hui Wang
10:25-10:40					Zhengshuyan Wang
10:40-10:50	Break				
Chair	Plenary Session	No PP	T. Nakano	Bo Ouyang	Plenary Session
10:50-11:15			Zhe Gao	He-Ping Li	
11:15-11:40			Haotian Chen	Wenjun Ning	
11:40-11:55			Yuya Otsuka	Bo Ouyang	
11:55-12:10			Lunan Liu 11:55-12:10	She Chen 11:55-12:20	
12:10-12:25			Runhui Zhou 12:10-12:25	T. Ramazanov 12:20-12:35	
12:25-12:40			Yawei Hou 12:25-12:40		
12:40-14:00	Lunch				
13:00-14:00		Poster			
Chair	Tao Wang	Xuekai Pei	No PP	Sienny Shang	
14:00-14:25	Shuqun Wu	Xinpei Lu		Y. Omura	
14:25-14:50	Nagendra K Kaushik	Julian Schulze		Siming Lu	
14:50-15:05	Xuekai Pei	Tao Wang		Xinliang Gao	
15:05-15:30	Neha Kaushik	Zhitong Chen		Dedong Wang	
15:30-15:55	Rozina Ch 15:30-15:45	Nikolai Akintsov 15:30-15:45		Sienny Shang 15:30-15:55	
15:55-16:00	Break				
Chair	Zhe Gao	Bin Zhang	No PP	Y. Omura	
16:00-16:25	T. Nakano	Kunihiro Ogawa		/	
16:25-16:50	Bin Zhang	Yanzeng Zhang		Qiang Hu	
16:50-18:20	Ran Hai 16:50-17:15	Haifeng Liu 16:50-17-05		Suresh Basnet 16:50-17:15	
	Nengchao Wang 17:15-17:30	Huihui Wang 17:05-17:20		Tom Man Kwan 17:15-17:30	
	Tingyu Li 17:30-17:45	Guodong Yu 17:20-17:35			
	Liuxin Li 17:45-18:00	Zuhao Wang 17:35-17:50			
		Guangzhou Hao 17:50-18:05			

Date: October 20

Applied Plasma Session		
Chair	**Tao Wang (AUT)**	
14:00-14:25	Shuqun Wu Nanjing University of Aeronautics and Astronautics	Model Predictive Control Technology for Ozone Production in SDBD
14:25-14:50	Nagendra Kumar Kaushik Kwangwoon University	Plasma based Nanotechnology and Biomedical Applications: Infection Control & Cosmetic Innovations
14:50-15:05	Xuekai Pei Wuhan University, China	Discharge Characteristics in Air in the Presence of Suspended Droplets
15:05-15:30	Neha Kaushik The University of Suwon, South Korea	Investigating UBP1 in Triple-Negative Breast Cancer: Insights from Non-Thermal Plasma Applications
15:30-15:45	Rozina Ch Govt Gulberg College for Women, Pakistan	Nonlinear Landau Damping of Transverse Electromagnetic Waves under Quantized Magnetic Fields: Implications for Particle Accelerators
15:45-16:00	Break	
Magnetic Fusion Session		
Chair	**Zhe Gao (Tsinghua U)**	
16:00-16-25	Tomohide Nakano NIQST	JT-60SA commissioning results and preparation for the next operation phases
16:25-16:50	Bin Zhang ASIPP	Recent Experimental Advancements on EAST in Support of The New Research Plan of ITER
16:50-17:15	Ran Hai DUT	Quantitative compositional analysis of co-deposited impurities on PFCs of EAST via in-situ LIBS technique
17:15-17:30	Nengchao Wang HUST	Electron internal transport barrier induced by NTM in the ECRH plasma on J-TEXT
17:30-17:45	Tingyu Li ASIPP	A method for optimizing the layout of equilibrium magnetic sensors in tokamaks based on improved minimal-redundancy-maximal-relevance criterion
17:45-18:00	Liuxin Li Hefei Institutes of Physical Science, CAS	Study on the Influence of Ion Cyclotron Resonance Heating on Boundary Turbulence Using a Novel Probe

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Date: October 21

Applied Plasma Session		
Chair	**Xuekai Pei (AUT)**	
14:00-14:25	Xinpei Lu HUST	Machine learning-based evaluation of impact of T_{rot}, T_{vib}, and T_e on nitrogen fixation efficiency
14:25-14:50	Julian Schulze Ruhr University	Streamer dynamics and gas conversion in patterned dielectric barrier discharges
14:50-15:05	Tao Wang Anhui Univ of Tech	Characteristics of atmospheric flexible plasma source and its application in internal surface treatment
15:05-15:30	Zhitong Chen SIAT, CAS	Cold plasma for cancer therapy
15:30-15:45	Nikolai Akintsov Nantong Univ	Hyperbolic Kinematics of Relativistic Particles in Strong Laser Fields: A New Approach to Laser-Plasma Interaction Modeling
15:45-16:00	Break	
Magnetic Fusion Session		
Chair	**Bin Zhang (ASIPP)**	
16:00-16:25	Kunihiro Ogawa NIFS	Demonstration of aneutronic p-11B reaction in Large Helical Device
16:25-16:50	Yanzeng Zhang USTC	Coupling of a quasi-static collisional-radiative model with PIC for high-Z impurity pellet assimilation into fusion plasmas
16:50-17:05	Haifeng Liu SJU	Study of global neoclassical transport in Chinese First Quasi-axisymmetric Stellarator
17:05-17:20	Huihui Wang Hefei Institutes of Physical Science, CAS	Overview of error field scaling studies in EAST and implications for ITER
17:20-17:35	Guodong Yu USTC	A flexible stellarator design with planar coils
17:35-17:50	Zuhao Wang Tsinghua University	Research on Current Profile Broadening by off-axis LHCD at High Density under EAST High-βP Scenarios
17:50-18:05	Guangzhou Hao Southwestern Institute of Physics	*Three-dimensional nonlinear modeling of ELM dynamics with biasing in HL-3 tokamak*

Date: October 22

Magnetic Fusion Session		
Chair	**T. Nakano (QST)**	
10:50-11:15	Zhe Gao Tsinghua University	Nonlinear wave-particle and wave-wave interactions during rf heating and current drive in magnetic confinement fusion plasma
11:15-11:40	Haotian Chen SWIP	A full-kinetic ion drift-kinetic electron simulation code
11:40-11:55	Yuya Otsuka Kyushu University	Observations of Magnetic Reconnection in transient Coaxial Helicity Injection Experiments on QUEST
11:55-12:10	Lunan Liu ASIPP	ICRF Heating on EAST: Recent Experimental Advances & Engineering Developments
12:10-12:25	Runhui Zhou IPP, HIPS	Two-dimensional Hard X-ray Camera for the Distribution of Fast Electrons during LHCD and ECCD Discharges on EAST
12:25-12:40	Yawei Hou Anhui Jianzhu University	Numerical study of TAE/EPM on EAST using MEGA
12:40-14:00	Lunch	

Date: October 23

Applied Plasma Session		
Chair	**Bo Ouyang (NJUST)**	
10:50-11:15	He-Ping Li Tsinghua University	Model Predictive Control Technology for Ozone Production in SDBD
11:15-11:40	Wenjun Ning Sichuan University	Breakdown voltage and discharge dynamics of MPa-level pressure helium with trace of impurities
11:40-11:55	Bo Ouyang NJUST	Broad and Precise Structural Modulation of Metal Nitride Nano-frameworks via Multifield-Mediated Plasma Strategy
11:55-12:20	She Chen Hunan University	Mechanism of ion wind generated by corona discharge in air and its application in aircraft propulsion
12:20-12:35	T. Ramazanov Kazak Nat Univ	Effective interaction potentials and kinetic properties of dense plasmas
12:35-14:00	Lunch	
Solar/Astro/Space Plasma Session		
Chair	**Sienny Shang (Academia Sinca)**	
14:00-14:25	Yoshiharu Omura Kyoto University	Nonlinear Growth of Whistler-mode Waves in Space Plasmas
14:25-14:50	Siming Liu Southwest Jiaotong University	Effects of Large-Scale Magnetic Fields on Accretion flow in Sgr A*
14:50-15:05	Xinliang Gao USTC	Drivers of chorus wave excitation in the Earth's magnetosphere
15:05-15:30	Dedong Wang GFZ Helmholtz Center for Geosciences	Electromagnetic Waves and Their Effects on Energetic Electrons in the Inner-magnetosphere
15:30-15:55	Sienny Shang Academia Sinica	Multifaceted Views of Magnetically Interplaying Inflow and Outflow in Protostellar Systems
15:55-16:25	Break	
Solar/Astro/Space Plasma Session		
Chair	**Y. Omura (Kyoto Univ)**	
16:25-16:50	Qiang Hu The University of Alabama in Huntsville	Characterization of Magnetic Flux Ropes in Space Plasmas
16:50-17:15	Suresh Basnet APCTP	Equation of state for cylindrical magnetized plasma using the partition function approach
17:15-17:40	Tom Man Kwan The Univ of Hong Kong	Simulating Strongly Magnetized Super-Eddington Accretion Disks Around Black Holes

Date: October 24

Magnetic Fusion Session		
Chair	**Haotian Chen (SWIP)**	
09:00-09:25	Annika Ekedahl CEA, IRFM	Overview of long pulse achievements in WEST full tungsten environment
09:25-09:40	Jianping Mu Dalian University of Technology	Data fusion of Laser Induced Breakdown Spectroscopy and Diffuse Reflectance Spectroscopy for improved quantitative analysis of EAST-like plasma-facing materials
09:40-09:55	Liqing Xu Hefei Institutes of Physical Science, CAS	Helical m/n=1/1 Mode and Fast Electron Dynamics in EAST's 1000 second ELM-free H-mode Discharge
09:55-10:10	Ming Xu Hefei Institutes of Physical Science, CAS	Role of Reversed Shear Alfven Eigenmodes (RSAEs) in Internal Transport Barrier (ITB) Formation for High-qmin Plasmas in EAST
10:10-10:25	Hui Wang IPP, CAS	Kinetic effects on tungsten impurity edge transport and screening under different divertor conditions
10:25-10:40	Zhengshuyan Wang ASIPP	Investigation of sawtooth control by ICRF on EAST
10:40-10:50	Break	