

First Announcement on 3rd Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2019)

November 4-8, 2019 Crown Plaza Hotel, Hefei, Anhui, China

Organized by AAPPS-DPP

Hosted by Department of Engineering and Applied Physics, USTC

AAPPS-DPP held 1st Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2017) during 18-23, September 2017 in Chengdu, China (http://aappsdpp.org/DPP2017rogramlatest/index.html) and the 2st Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2018) during 12-17, November 2018 in Kanazawa, Japan (http://aappsdpp.org/DPP2018/index.html), successfully. AAPPS-DPP will have 3st annual conference in Hefei. This conference is the annual plasma physics conference in Asia-Pacific region, similar to the APS-DPP and EPS-DPP conferences on plasma physics.

[1] Scope of the AAPPS-DPP2019:

AAPPS-DPP2019 is a plasma physics conference under the authority of AAPPS-DPP for scientific discussions on plasma physics. This conference should be physics oriented and provide interdisciplinary and in-depth discussions among and in various fields of plasma physics and application.

[2] Date: November 4(Monday) -8(Friday), 2019

[3] Conference Venue: Crown Plaza Hotel: Building A, No.598 Huangshan Road, Hefei, 230088, China

[4] Organization:

AAPPS-DPP (http://aappsdpp.org/AAPPSDPPF/) is organizing body of this conference.

[5] Host: AAPPS-DPP 2019 is hosted by Department of Engineering and Applied Physics, USTC

[6] Endorsement/ Recognition/Sponsor

Endorsed by,

- 1. APS-DPP: Division of plasma physics, American Physical Society https://www.aps.org/units/dpp/
- 2. JPS: Physical society of Japan https://www.jps.or.jp/english/
- 3. JSAP: Japan society of applied physics https://www.jsap.or.jp/english
- 4. CPS-DPP: Division of plasma physics, Chinese physical society
- 5. KPS-DPP: Division of plasma physics, Korean physical society
- 6. PSSI: Plasma science society of India http://www.pssi.in/
- 7. ASJ: Astronomical society of Japan http://www.asj.or.jp/en/
- 8. CAS: Chinese Astronomical Society http://english.astronomy.pmo.cas.cn
- 9. ASI: Astronomical society of India https://www.astron-soc.in/
- 10. SGESPP: Society of Geomagnetism and Earth, Planetary and Space Science (SGEPSS) http://www.sgepss.org/sgepss/index-e.html
- 11. CSSR: Chinese society of Space Research http://www.cssr.org.cn/pages/kxxhweb/jianjie.htm
- 12. JSAP: Japan Society of Applied Physics http://annex.jsap.or.jp/ (tbc)
- 13. CMS-DPP: Division of plasma physics, Chinese society of theoretical and applied mechanics http://en.cstam.org.cn/
- 14. LSJ: The Laser society of Japan http://www.lsj.or.jp/LSJHP/LSJindex.html
- 15. CPS-DHEDP: Division of High Energy Density Physics, Chinese Physical Society
- 16. JSPF: The Japan society of Plasma Science and Nuclear Fusion Research http://www.jspf.or.jp/eng/
- 17. CNS-NFPP: Division of nuclear fusion and plasma physics, Chinese Nuclear Society
- 18. AAAPT: Asian African Association for Plasma Training http://www.aaapt.org/
- 19. Australian ITER Forum https://fusion.ainse.edu.au/

Recognized by,

- 1. Chinese Astronomical Society http://english.astronomy.pmo.cas.cn/
- 2. EPS: European Physical Society https://www.eps.org/



Financially supported by,

- China International Nuclear Fusion Energy Program Execution Center
- Hefei Municipal Bureau of Science and Technology 2.
- 3. APCTP (Asia Pacific Center for Theoretical Physics) https://www.apctp.org/main/
- 4. Top Glove Foundation http://www.topglove.com/top-glove-foundation/
- 5. ENN Sci. & Tech Co. Ltd. http://www.ennresearch.com/
- National Natural Science Foundation of China
- 7. Southwestern Institute of Physics
- Institute of Plasma Physics, Chinese Academy of Sciences 8.
- University of Science and Technology of China
- 10. School of Physical Sciences, University of Science and Technology of China
- 11. Department of Engineering and Applied Physics, University of Science and Technology of China
- 12. Key Laboratory of Geospace Environment, Chinese Academy of Sciences
- 13. IFE Forum



[7] Scientific Program

- 34 Asia-Pacific conference on Plasma Physics will cover following sub-disciplines of plasma physics.
- 1. CD Cross-disciplinary (Focused Topics)
- 2. F Fundamental plasma (Focused Topics)
- 3. B Basic plasma
- 4. A Applied plasma
- 5. L Laser plasma
- Space plasma & Geomagnetism 6. SG
- 7. SA Solar & Astro plasma
- 8. MF Magnetic Fusion plasma
- 1) CD focused topics: Nonlinear Wave-Particle Interaction, Transitions, Relaxation
- 2) F focused topics: The "Fundamental" category is for presentations that have universal impact disseminating to wide area of sciences. In this conference, F-PC chair will try to call contribution aiming at dissemination to general science. The sessions will be built around the following four subjects: 1. Nonlinear physics (including Hamiltonian structure, integrability, chaos, turbulence, etc.), 2. Linear theory (including spectral analysis, non-Hermitian system, symmetry breaking/chirality, etc.), 3. Statistical physics (including entropy, non-equilibrium system, SOC, turbulence, etc.), 4 Modeling (including toy model, topological dynamics, quantum/relativistic system, etc.) 3) "Basic" session will cover a variety of subjects in basic plasma physics (including topics on plasma diagnostics, numerical simulation, dusty plasma, plasma source, propulsion, and heating systems).

[8] Important Dates

Deadline for nomination of plenary and invited speakers Deadline for nomination of 2019 S. Chandrasekhar Prize Deadline for nomination of 2019 Innovation Prize (New) Notification of plenary and invited speakers Deadline for application to Financial Assistance Deadline for nomination of DPP young research award Deadline for nomination of U30 Doctoral Scientist/Student award May 31 -> Extended to June 15 Call for contributed presentation (oral/poster)

Call for post deadline (poster) Deadline for VISA application Deadline for early registration Deadline for final registration Conference

Feb 28 -> Extended to March 15 (Finished) March 31 -> Extended to April 15 (Finished) March 31 -> Extended to April 15 (Finished)

Mid April -> May 22 (Finished)

May 31 -> Closed

May 31 -> Extended to June 15

April 1- June 15 -> Extended to June 30

June 21 - September 20

September 3 September 1 October 1 Nov. 4-8

[9] Basic Structure of Scientific Program

Conference will run from Monday (4 Nov.) to Friday (8 Nov.). Morning sessions will be plenary session (no parallel session) in principle which may include ~36 plenaries (30 minutes) and 9 summaries. Afternoon session will be dedicated for parallel sessions. Number of invited speakers (25 minutes) would be 336 for above 9 fields. Number of orals (15 minutes) would be 336. Posters up to 300 are welcomed.

1 session: 120min= 25min x 3+ 15min x 3. Each sub-discipline has 8 parallel session + 1 poster session



So, 24 invited + 24 orals for each (CD, F, B1, B2, A1, A2, L1, L2, SG, SA, MF1, MF2)

CD, F, SG, SA: 24 invited+24 orals, B, A, L, MF: 48 invited + 48 orals.

Details are subject to change.

11.04 (Monday)	11.05 (Tuesday)	11.06(Wednesday)	11.07(Thursday)	11.08(Friday)
7:00: Registration start				
-	8:00-8:30:P5	8:00-8:30:P14	8:00-8:30:P23	8:00-10:00:Parallel session
8:30-10:00:Opening	8:30-9:00:P6	8:30-9:00:P15	8:30-9:00:P24	CD, F, B1, B2, A1, A2,
	9:00-9:30:P7	9:00-9:30:P16	9:00-9:30:P25	L1, L2, SG, SA, MF1,
	9:30-10:00:P8	9:30-10:00:P17	9:30-10:00:P26	MF2
	10:00-10:30:P9	10:00-10:30:P18	10:00-10:30:P27	10:00-10:30: Coffee break
10:00-11:00:Photo&Coffee	10:30-11:00: Coffee break	10:30-11:00: Coffee break	10:30-11:00: Coffee break	10:30-11:00:P32
11:00-11:30:P1	11:00-11:30:P10	11:00-11:30:P19	11:00-11:30:P28	11:00-11:30:P33
11:30-12:00:P2	11:30-12:00:P11	11:30-12:00:P20	11:30-12:00:P29	11:30-12:00:P34
12:00-12:30:P3	12:00-12:30:P12	12:00-12:30:P21	12:00-12:30:P30	12:00-12:30:P35
12:30-13:00:P4	12:30-13:00:P13	12:30-13:00:P22	12:30-13:00:P31	12:30-13:00:P36
13:00-14:00: Lunch break	13:00-14:00: Lunch break	13:00-14:00: Lunch break	13:00-14:00: Lunch break	13:00-14:00:Lunch break
14:00-16:00:Parallelsession	14:00-16:10:Parallelsession	14:00-16:10:Parallelsession	14:00-16:10:Parallelsession	14:00-14:30:P37CDsummary
CD, F, B1, B2, A1, A2, L1	14:30-15:00:P38 F summary			
L2, SG, SA, MF1, MF2	15:00-15:30:P39 B summary			
				15:30-16:00:P40 A summary
				16:00-16:30:P41 L summary
16:00-16:30: Coffee break	16:00-16:30: Coffee break	16:00-16:30: Coffee break	16:00-16:30: Coffee break	16:30-17:00:P42SGsummary
16:30-18:30:Parallelsession	16:30-18:30:Parallelsession	16:30-18:30:Parallelsession	16:30-18:30:Parallelsession	17:00-17:30:P43SAsummary
CD, F, B1, B2, A1, A2, L1	17:30-18:00:P44MFsummary			
L2, SG, SA, MF1, MF2	18:00-19:00: Poster prize			
				& Closing
19:00-22:00 Reception	19:00-21:00 tbd	19:00-20:00	19:00-22:00: Banquet	
		DPP general Assembly		

[10] Registration fee

Registration fee	Early fee (before Sept. 1)	Final (Before Oct. 1)	Note
Member	500 US\$	600 US\$	Same for endorsed/recognizing societies
Non-member	600 US\$	700 US\$	
Student and retired	250 US\$	300 US\$	

Note 1: In Kanazawa, we had a few ten's of speakers who did not come without payment of registration fee. We will delete speakers from the program who do not pay registration fee until final registration deadline (Oct. 1) to minimize loss of large number of conference bags, souvenirs, and printed programs.

Note2: Conference program will be finalized based on registration fee payment as of Oct. 1. Registration after Oct. 1 is limited to participants who do not give presentation.

Note 3: Member fee is applied to AAPPS-DPP members and members of endorsed societies. Registration fee includes 1) Admission to all conference sessions and 2) Conference Materials. Coffee break and welcome reception are free of charge.

Note 5: Registration fee may be waived for a limited number of peoples from developing countries or retired persons who will give presentation. Please visit http://aappsdpp.org/DPP2019/financialassistance.html.

- a) Welcome reception: There will be a free reception on Monday evening (Nov. 5) 19:00-21:00. Place will be noticed later.
- b) Lunch ticket: Buffet in Crown Plaza Hefei is recommended. The buffet is \$13/person.
- c) **Conference diner:** Conference diner will be held on Thursday evening (Nov. 7)19:00-22:00. Place and how to purchase dinner ticket will be noticed later.
- d) Conference tour: tbd

[11] VISA requirement

Participants who need VISA should contact LOC at myfang@ustc.edu.cn. There is an online form in the Google docs. Any person who need apply Chinese Visa, please fill the following form. Once the necessary information has been collected, we will send the official invitation letter for the visa application ASAP.

The form link is https://forms.gle/KGCMVvZRftcz1QkHA

Deadline for VISA process is **September 30 (strict deadline)** and LOC will send invitation letter who paid registration fee. In case participant can't come, paid fee will be reimbursed with some cost.

[12] Financial assistance

There will be limited resources to assist contributors from developing countries or retired persons who will give presentation. We closed application on May 31. http://aappsdpp.org/DPP2019/financialassistance.html.

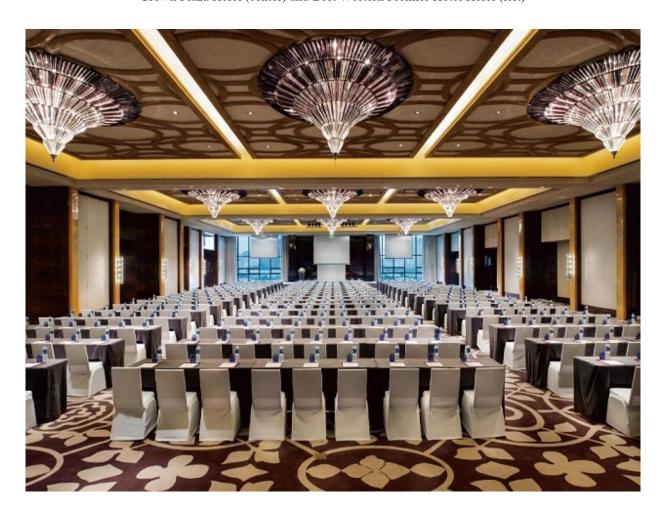


[13] Hotel information

LOC reserved a block of rooms in Crown Plaza Hefei (http://hotel-rez.com/hw/a401754/location.html) and Best Western Premier Hotel Hefei behind.



Crown Plaza Hefei (center) and Best Western Premier Hotel Hefei (left)





[14] Plenary Speakers

#	Photo	Name	Affiliation	Talk title
P1				Innovation prize winner (1)
P2				Innovation prize winner (2)
P3	Host plenary			
P4	Solution	Chi Wang	National Space Center, CAS	The SMILE mission: science and technical status
P5				
CD		Weixing Wang	PPPL	ExB shear flow structure and plasma self-driven current generation in magnetic island
CD	9	David Hughes	University of Leeds	Dynamo action in rapidly rotating convection with no inertia
CD		Xavier Garbet	CEA	Entropy and relaxation processes
CD		Yoshifumi Kimura	Nagoya University	Vortex reconnection and a finite-time singularity of the Navier-Stokes equations
F		Vinod Krishan	Indian Institute of Astrophysics, Bangalore	Novelties in Partially Ionized Plasmas
F		Dominique Escande	Aix-Marseille University	Relation of the Vlasovian and of the N-body descriptions of microscopic plasma physics
F		Philip Morrison	The University of Texas at Austin	Hamiltonian Description of Plasma and other Matter
В		Lin I	National Central University	Cooperative excitations in dusty plasma liquids and nonlinear dust acoustic waves: from order to turbulence
В		Fredrick Skiff	University of Iowa	Observing plasma kinetic degrees of freedom using advanced diagnostics
В		Troy Carter	UCLA	Overview of the Basic Plasma Science Facility: the physics of waves relevant to space, astrophysical and fusion plasmas
В		Jiayu Dai	National University of Defense Technology	Electron-ion coupled dynamics and structures in warm dense plasmas
A		Young-Hoon Song	Korea Institute of Machinery and Materials	Application of plasma technologies for air pollution control
A		Uwe Czarnetzki	Ruhr-Universität	Collisionless electron heating in low-pressure discharges
A		Seiji Samukawa	Tohoku University	Atomic Layer Etching, Deposition and Modification Processes for Novel Nano-materials and Nano-devices
A		Jin-Xiu Ma	USTC	Basic experiments on ion waves excitation and propagation



				2017.00.07
L		Michel Koenig	Ecole Polytechnique	Overview of Laboratory Astrophysics Experiments at LULI
L	L	Baifei Shen	Shanghai Normal University	Physics for laser power from 1 PW to 100 PW
L		Hitoki Yoneda	University of Electro-Communications	Progress of inner-shell ionized hard x-ray laser pumped by intense XFEL pulses
L		Chang Hee Nam	IBS	Exploration of nonlinear Compton scattering between a laser-accelerated GeV electron beam and a PW laser
SG		Yoshiharu Omura	Kyoto University	Dynamic variation of Earth's outer radiation belt due to nonlinear wave-particle interactions
SG		James Drake	University of Maryland	Confronting reconnection simulations with MMS observations
SG		Chuanyi Tu	Peking University	New observations and new thoughts on solar wind turbulence
SG		Gurbax Lakhina	Indian Institute of geomagnetism	Boundary Layer Waves in Space Plasmas
SA		Alexandre Lazarian	University of Wisconsin-Madison	Intimate Connection of Astrophysical Magnetic Reconnection and Turbulence
SA		JinLin Han	National Astronomical Observatories of China	Observing Interstellar and Intergalactic Magnetic Fields
SA		Jie Jiang	Beihang University	Predictability of Solar Cycle
SA		Ryoji Matsumoto	Chiba University	Magnetic Activities of Black Hole Accretion Disks
MF		Xianzu Gong	ASIPP	Overview of experimental results in EAST Tokamak
MF		Min Xu	Southwestern Institute of Physics	Advances in understanding of turbulent transport and confinement improvement in the HL-2A tokamak
MF	MF	Si-Woo Yoon	National Fusion Research Institute	Overview of KSTAR results and Plan
MF		Richard Buttery	General Atomics	The Advanced Tokamak Path to a Compact Fusion Pilot Plant
37		P.D. Diamond	UCSD	Summary of Cross Disciplinary session
38		Zensho Yoshida	The University of Tokyo	Summary of Fundamental plasma session
39		Tomohiko Watanabe	Nagoya University	Summary of Basic plasma session



40	Yi-Kang Pu	Tsinghua University	Summary of Applied plasma session
41	Jie Zhang	SJTU	Summary of Laser plasma session
42	Xiaohua Deng	Nanchang University	Summary of Space plasma and Geomagnetism session
43	Peng-Fei Chen	Nanjin University	Summary of solar and astro plasma session
44	Hyeon Park	UNIST	Summary of magnetic fusion plasma session

[15] Invited Speakers

Field	Name	Affiliation	Talk title
CD/1	Li-Feng Wang	IAPCM	Progress on weakly nonlinear hydrodynamic instabilities in spherical
			geometry
CD/2	Ting Long	SWIP	Studies of Reynolds Stress and the Turbulent Generation of Edge Poloidal
			Flows on the HL-2A Tokamak
CD/3	Peng Shi	HUST	Experimental Investigations of MARFE and Density Limit on J-TEXT Ohmic
			Plasma
CD/4	Kohei Inayoshi	Peking University	Rapid black hole formation and growth
CD/5	Zhibin Guo	Peking University	How Phase Patterning Drives and Saturates Zonal FLow
CD/6	Lu Wang	HUST	Intrinsic current driven by electromagnetic electron temperature gradient
			turbulence in tokamak plasmas
CD/7	Maxime Lesur	Lorraine University	Description of turbulent transport in the velocity space
CD/8	Julian Mark	University of Oxford	Role of energetically constrained turbulent transport coefficients in ocean
			climatology
CD/9	Srimanta Maity	IPR	Equilibrium structure formation and dynamical response of strongly coupled
			dusty plasmas: A Molecular Dynamics study
CD/10	Kiori Obuse	Okayama University	Zonal flow formation in two-dimensional Rossby wave turbulence on a
			rotating sphere
CD/11	Michikazu	Kyoto University	Theoretical study of quantized vortices and quantum turbulence
	Kobayashi		
CD/12	Shigeru Inagaki	Kyushu University	Flows, Waves and Turbulence in Laboratory Plasma
CD/13	Naoto	Osaka University	Energy fluxes in anisotropic turbulence
	Yokoyama		
CD/14	Kenichiro	Kyushu University	Inhomogeneous neutral gas flow field structure in a partially ionized ECR
	Terasaka		plasma
CD/15	Takeshi Ido	NIFS	Nonlinear wave-particle interaction in magnetized high temperature plasmas confined in Large Helical Device
CD/16	Yusuke Kosuga	Kyushu University	Interplay among 3D flows in turbulent plasmas
CD/17	Yuejiang Shi	Seoul National University	New experimental findings of non-local transport in J-TEXT and KSTAR
CD/18	Patrick	UCSD	Spontaneous Transport Barriers Quench Turbulent Resistivity in 2D MHD
	Diamond		
CD/19	George Tynan	UCSD	Generation of intrinsic parallel flows from drift turbulence with broken
			symmetry
CD/20	Linda Sugiyama	MIT	Steady States for Solar Coronal Loops
CD/21	Weixin Guo	HUST	Scale selection and feedback loops for patterns in drift wave-zonal flow turbulence
F/1	Tao Wang	Zhejiang University	Hybrid simulations of shear Alfven fluctuations in burning fusion plasmas
F/2	Jianxing Li	Xi'an Jiaotong University	Determination of the Carrier-envelop phase of PW laser pulses and generation
. =			of spin-polarization relativistic electron beams via a single-shot ultra-intense
			laser pulse
F/3	Tomoo	Kyoto University	Topological fluid data analysis: COT representations of surface flows and
	Yokoyama		their implementations
F/4	Rong Zou	Zhejiang Normal University	Three-dimensional azimuthal magnetorotational instability of a MHD flow



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F/5	Naoki Sato	Kyoto University	Local Clebsch parametrization of Beltrami equilibria
F/6	Pavel Andreev	Lomonosov Moscow State University	Hydrodynamic representation of the many-particle spin-1/2 Pauli equation for quantum plasmas
F/7	Yasuhiko Igarashi	University of Tokyo	Sparse modeling for a data-driven approach in Plasma Physics
F/8	Natalia Tronko	Max Planck für Plasmaphysik	Geometrically reduced kinetic simulations of fusion plasmas
F/9	Michael Wheatland	The University of Sydney	Magnetic helicity and open magnetic fields
F/10	Dhairya Malhotra	New York University	A boundary integral equation solver for computing Taylor states in toroidal geometries
F/11	Zhisong Qu	ANU	Stepped pressure equilibrium with flow
F/12	Zhe Gao	Tsinghua University	Theory of Quasi-mode Parametric Decay in Plasmas
F/13	Yao Zhou	PPPL	Variational integration for ideal MHD and formation of current singularities
F/14	Antoine Cerfon	New York University	Integral equation methods for magnetic confinement fusion
F/15	Masaru Furukawa	Tottori University	MHD equilibria via simulated annealing and their stability negative energy modes and additional constraints
B/1	Ke Yao	Fudan University	Resonant electron ion recombinations: reliable atomic data for high temperature plasmas
B/2	Amar Prasad Misra	Visva-Bharati University	Stimulated scattering in relativistic plasmas
B/3	Nareshpal Singh Saini	Guru Nanak Dev University	Interaction of solitons and shocks in dusty plasmas
B/4	Modhuchandra Laishram	USTC	A dusty plasma model for characteristics of vortices in Jupiter's atmosphere
B/5	Weili Fan	Hebei University	Self-organized pattern formation in dielectric barrier discharge and kinetic simulations
B/6	Tobias Dornheim	Helmholtz-Zentrum Dresden Rossendorf	Ab initio simulations of warm dense matter
B/7	Pallavi Trivedi	IPR	Kinetic Eulerian Simulation of Electrostatic Phase Space Vortices (PSVs) In A Driven-Dissipative Vlasov-Poisson System
B/8	Zhihong Lin	UC Irbine	Verification and Validation of Integrated Simulation of Energetic Particles in Toroidal Plasmas
B/9	Shunjiro Shinohara	Tokyo University of Agriculture and Technology	Development of Electrodeless Thruster using High-Density Helicon Plasma Sources
B/10	Akira Kageyama	Kobe University	4-D Street View: Movie-based visualization method for HPC
B/11	Kazunori Takahashi	Tohoku University	Many aspects of plasma expansion physics in the magnetic nozzle and space applications
B/12	Taiichi Shikama	Kyoto University	Detection of anisotropy in the electron velocity distribution produced by electron cyclotron resonance heating using the polarization of helium atom emission lines
B/13	Hiroyuki Takahashi	Tohoku University	Application of an RF plasma source for divertor plasma study and its recent results
B/14	Ashild Fredriksen	The Arctic University of Norway	On the ion beams and energetic electrons through a current-free double layer (CFDL)
B/15	Masafumi Yoshida	Yamaguchi University	Property for production of the hydrogen negative ions by surface production process on the inner surface of the aperture
B/16	Yan Feng	Soochow University	Shear modulus of 2D dusty plasma solids
B/17	Shogo Isayama	National Central University	Underlying mechanisms in the dynamic profile formation of high-density helicon plasma
B/18	Khare Avinash	Central University of Sikkim	Phase transitions in gravitational dusty plasmas
B/19	Cheng-Ran Du	Donghua University	Study of wave spectra of square-lattice domains in a disordered q2D binary complex plasma
B/20	Hiroshi Tanabe	University of Tokyo	Full-2D imaging measurement of ion heating/transport process during high field merging experiment in TS-6
B/21	Yang Yang	Fudan University	High resolution x-ray spectroscopy of Tungsten and Molybdenum for fusion diagnostic
B/22	Jianyuan Xiao	USTC	Structure-preserving Geometric Particle-in-Cell Algorithms
B/23	Kenneth Gentle	Inst. Fusion Studies, Univ. Texas at Austin	The Nonlinearly Saturated State of Strong Interchange Turbulence
B/24	Weiwen Xiao	IFTS, ZJU, China	Experimental research on particle transport in Tokamak plasmas
B/25	Mohammed Koubiti	Aix-Marseille Université	Reviewing spectroscopic techniques used for divertor plasmas of magnetic fusion devices
B/26	Daniele Bonfiglio	CNR - Consorzio RFX	Nonlinear MHD modelling of helical self-organization in the RFP: effect of a realistic boundary and predictions for RFX-mod2
B/27	Jinbang Yuan	Southwestern Institute of	Gas Puff Imaging Measurements During Resonant Magnetic Perturbations on



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Shuqun Wu Namjing University of meconautics and astronautics High-electron-density microplasmas generated inside capillaries	A/4			
Makoto Kambara The University of Tokyo Kambara High throughput production of silicon nanorod from powder feedstock by paths Shirya Kumagai Meijo University Plasma-on-Chip: A microdevice for irradiating single cells with non-thermal atmospheric pressure plasma All Hiroshi Akatsuka Tokyo Institute of Tokyo Institute of Akatsuka Tokyo Institute of Tokyo Institute of Akatsuka Tokyo Institute of Akatsuka Tokyo Institute of Akatsuka Tokyo Institute of Tokinology Plasma-Functionalized Solution: A Potent Artitincipal Agent for Biomedical and Plasma Farming Applications Mirogend John the Institute of Plasma-Functionalized Solution: A Potent Artitincipal Agent for Biomedical and Plasma Farming Applications Mirogend John the Institute of Plasma-Functionalized Solution: A Potent Artitincipal Agent for Biomedical and Plasma Farming Applications Mirogend John the Institute of Plasma-Functionalized Solution: A Potent Artitincipal Agent for Biomedical and Plasma Farming Applications Mirogen doping technique with dielectric barrier discharge under high temperature Institute of Plasma-Functionalized Solution: A Potent Artitincipal Productivity Mirogend doping technique with dielectric barrier discharge under high temperature Inspect of Autospheric Pressure Plasma Irradiation to Seeds on Agricultural Productivity Productivity Productivity Productivity Productivity Improvement of growth and yield of rice plants with plasma treatment University Atmospheric Pressure Plasma surface modification: from surface treatment to thin Illin deposition Atmospheric Pressure plasma surface modification: from surface treatment to thin Illin deposition Atmospheric Pressure Plasma P			Nanjing University of	
Aliange	A/6			
Alta	A/7	Shinya	Meijo University	Plasma-on-Chip: A microdevice for irradiating single cells with non-thermal
Ay	A/8	Hiroshi	Tokyo Institute of	Optical emission spectroscopic (OES) analysis of electron temperature and
Aliotaka Nagoya University One-dimensionally long-scale atmospheric-pressure plasma for large-area surface treatment Nitrogen doping technique with dielectric barrier discharge under high temperature Impact of Atmospheric Pressure Plasma Irradiation to Seeds on Agricultural Productivity Improvement of growth and yield of rice plants with plasma treatment Impact of Atmospheric Pressure Plasma Irradiation to Seeds on Agricultural Productivity Improvement of growth and yield of rice plants with plasma treatment Impact of Atmospheric Pressure Plasma Irradiation to Seeds on Agricultural Productivity Improvement of growth and yield of rice plants with plasma treatment Impact of Atmospheric Pressure plasma surface modification: from surface treatment to thin film deposition Aliospheric Pressure plasma surface modification: from surface treatment to thin film deposition Surface Modification of Polymers and Textiles by Atmospheric Pressure Argon Glow Discharge Argon Glow Discha	A/9			Plasma-Functionalized Solution: A Potent Antimicrobial Agent for
Aliang	A/10		Nagoya University	One-dimensionally long-scale atmospheric-pressure plasma for large-area
A/12 Kazunori Koga Kyushu University and NINS Impact of Atmospheric Pressure Plasma Irradiation to Seeds on Agricultural Productivity Productivity Productivity Productivity Improvement of growth and yield of rice plants with plasma treatment A/14 Manabu Tanaka Kyushu University Generation of innovative thermal plasma with diode-rectification technique A/15 Se Youn Moon Chonbuk National Atmospheric pressure plasma surface modification: from surface treatment to thin film deposition A/16 Raju Bhai Tyata Tribuvan University Tribuvan University Suresh Sharma Delhi Technological University Effect of Process Parameters on the Growth and Field Emission Properties of Graphene -Carbon Nanotube Composite Chemical non-equilibrium simulation of are attachment on anode of a high-intensity transferred are Chemical non-equilibrium simulation of are attachment on anode of a high-intensity transferred are Chemical non-equilibrium simulation of electric field and surface charge in nanosecond-pulse surface dielectric field and surface fi	A/11		Oita University	Nitrogen doping technique with dielectric barrier discharge under high
Hiroshi Hashizume	A/12	Kazunori Koga		Impact of Atmospheric Pressure Plasma Irradiation to Seeds on Agricultural
A/14 Manabu Tanaka Kyushu University Generation of innovative thermal plasma with diode-rectification technique A/15 Se Youn Moon Chonbuk National University Atmospheric pressure plasma surface modification: from surface treatment to thin film deposition A/16 Raju Bhai Tyata Tribhuvan University Surface Modification of Polymers and Textiles by Atmospheric Pressure Argon Glow Discharge A/17 Suresh Sharma Delhi Technological University Effect of Process Parameters on the Growth and Field Emission Properties of Graphene - Carbon Nanotube Composite A/18 Hai-Xin Wang Beihang University Chemical non-equilibrium simulation of are attachment on anode of a high-intensity transferred are charge in nanosecond-pulse surface dielectric Barrier discharge A/19 Cheng Zhang Institute of Electrical Engineering, CAS Laser wakefield accelerators as tools for studying extreme conditions L/SP1 Stuart Mangles University of Maryland Raman scattering: A summary of five decades of theory, experiment and simulations L/SP2 Ryosuke Kodama Osaka University Exploration of high energy density science in various scales of structures with high power lasers L/SP3 Yasuaki Kishimoto Kyoto University Generation and application of self-organized high energy density plasma produced by the intera	A/13			
A/15 Se Youn Moon Chonbuk National University Atmospheric pressure plasma surface modification: from surface treatment to thin film deposition Surface Modification of Polymers and Textiles by Atmospheric Pressure Argon Glow Discharge Effect of Process Parameters on the Growth and Field Emission Properties of Graphene - Carbon Nanotube Composite Chemical non-equilibrium simulation of are attachment on anode of a high-intensity transferred are Chemical non-equilibrium simulation of are attachment on anode of a high-intensity transferred are Chemical non-equilibrium simulation of electric field and surface charge in nanosecond-pulse surface dielectric barrier discharge Lisu University of Maryland Laser wakefield accelerators as tools for studying extreme conditions L/SP2 Chuan Sheng Liu University of Maryland Exploration of high energy density science in various scales of structures with high power lasers L/SP4 Ke Lan LAPCM, Beijing Progress in spherical hohlraum studies and experimental campaign on high energy laser facilities in China Chemical non-equilibrium simulations Chemical non-equilibrium simulation of electric field and surface charge in nanosecond-pulse surface dielectric barrier discharge Exploration of high energy density science in various scales of structures with high power lasers L/SP4 Ke Lan LAPCM, Beijing Progress in spherical hohlraum studies and experimental campaign on high energy laser facilities in China Chemical non-equilibrium simulation of self-organized high energy density plasma produced by the interaction between high intensity laser and structured medium Liming Chen Institute of Physics, CAS Ultrahigh charge electron acceleration from solid target Liming Chen Institute of Physics, CAS Optical manipulation of particle beam by relativistic vortex cutter Liming Chen Shanghai Isia Tong University Recent progresses on high quality and staged laser wakefield acceleration at SITU Liming Chen Shanghai Jiao Tong U	A/14		Kyushu University	Generation of innovative thermal plasma with diode-rectification technique
A/16 Raju Bhai Tyata Tribhuvan University Surface Modification of Polymers and Textiles by Atmospheric Pressure Argon Glow Discharge Effect of Process Parameters on the Growth and Field Emission Properties of Graphene - Carbon Nanotube Composite			Chonbuk National	Atmospheric pressure plasma surface modification: from surface treatment to
A/17 Suresh Sharma Delhi Technological University of Graphene - Carbon Nanotube Composite	A/16	Raju Bhai Tyata		Surface Modification of Polymers and Textiles by Atmospheric Pressure
A/18	A/17	Suresh Sharma		Effect of Process Parameters on the Growth and Field Emission Properties
A/19Cheng Zhang Engineering, CASInstitute of Electrical Engineering, CASThe discharge propagation and the evolution of electric field and surface charge in nanosecond-pulse surface dielectric barrier dischargL/SP1Stuart ManglesImperial College LondonLaser wakefield accelerators as tools for studying extreme conditionsL/SP2Chuan Sheng LiuUniversity of MarylandRaman scattering: A summary of five decades of theory, experiment and simulationsL/SP3Ryosuke KodamaOsaka UniversityExploration of high energy density science in various scales of structures with high power lasersL/SP4Ke LanIAPCM, BeijingProgress in spherical hohlraum studies and experimental campaign on high energy laser facilities in ChinaL/SP5Yasuaki KishimotoKyoto UniversityGeneration and application of self-organized high energy density plasma produced by the interaction between high intensity laser and structured mediumL/SP6Dimitri BataniUniversité BordeauxProgress in shock ignitionL/1Liming ChenInstitute of Physics, CASUltrahigh charge electron acceleration from solid targetL/2Wenpeng WangShanghai Institute of Optics and Fine Mechanics, CASOptical manipulation of particle beam by relativistic vortex cutterL/3Xiaohu YangNational University of Defense TechnologyTransport of ultra-intense laser-driven fast electrons in dense plasmasL/4Min ChenShanghai Jiao Tong UniversityRecent progresses on high quality and staged laser wakefield acceleration at SJTUL/5Qing JiaUSTCMagnetized plasma	A/18	Hai-Xin Wang		Chemical non-equilibrium simulation of arc attachment on anode of a
L/SP1Stuart ManglesImperial College LondonLaser wakefield accelerators as tools for studying extreme conditionsL/SP2Chuan Sheng LiuUniversity of MarylandRaman scattering: A summary of five decades of theory, experiment and simulationsL/SP3Ryosuke KodamaOsaka UniversityExploration of high energy density science in various scales of structures with high power lasersL/SP4Ke LanIAPCM, BeijingProgress in spherical hohlraum studies and experimental campaign on high energy laser facilities in ChinaL/SP5Yasuaki KishimotoKyoto UniversityGeneration and application of self-organized high energy density plasma produced by the interaction between high intensity laser and structured mediumL/SP6Dimitri BataniUniversité BordeauxProgress in shock ignitionL/1Liming ChenInstitute of Physics, CASUltrahigh charge electron acceleration from solid targetL/2Wenpeng WangShanghai Institute of Optics and Fine Mechanics, CASOptical manipulation of particle beam by relativistic vortex cutterL/3Xiaohu YangNational University of Defense TechnologyTransport of ultra-intense laser-driven fast electrons in dense plasmasL/4Min ChenShanghai Jiao Tong UniversityRecent progresses on high quality and staged laser wakefield acceleration at SJTUL/5Qing JiaUSTCMagnetized plasma based q-plate for generation of ultraintense optical vorticesL/6Hong-bo CaiIAPCMStudy of the kinetic effects in indirect-drive inertial confinement fusion hohlraumsL/7Rui YanUSTC	A/19	Cheng Zhang	Institute of Electrical	The discharge propagation and the evolution of electric field and surface
L/SP2Chuan Sheng LiuUniversity of MarylandRaman scattering: A summary of five decades of theory, experiment and simulationsL/SP3Ryosuke KodamaOsaka UniversityExploration of high energy density science in various scales of structures with high power lasersL/SP4Ke LanIAPCM, BeijingProgress in spherical hohlraum studies and experimental campaign on high energy laser facilities in ChinaL/SP5Yasuaki KishimotoKyoto UniversityGeneration and application of self-organized high energy density plasma produced by the interaction between high intensity laser and structured mediumL/SP6Dimitri BataniUniversité BordeauxProgress in shock ignitionL/1Liming ChenInstitute of Physics, CASUltrahigh charge electron acceleration from solid targetL/2Wenpeng WangShanghai Institute of Optics and Fine Mechanics, CASOptical manipulation of particle beam by relativistic vortex cutterL/3Xiaohu YangNational University of Defense rechnologyTransport of ultra-intense laser-driven fast electrons in dense plasmasL/4Min ChenShanghai Jiao Tong UniversityRecent progresses on high quality and staged laser wakefield acceleration at SJTUL/5Qing JiaUSTCMagnetized plasma based q-plate for generation of ultraintense optical vorticesL/6Hong-bo CaiIAPCMStudy of the kinetic effects in indirect-drive inertial confinement fusion hohlraumsL/7Rui YanUSTC(To be determined)L/8Dong YangResearch Center of Laser Fusion(To be determined) <td>L/SP1</td> <td>Stuart Mangles</td> <td></td> <td></td>	L/SP1	Stuart Mangles		
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L/3 Xiaohu Yang National University of Defense Technology L/4 Min Chen Shanghai Jiao Tong University L/5 Qing Jia USTC Magnetized plasma based q-plate for generation of ultraintense optical vortices L/6 Hong-bo Cai IAPCM Study of the kinetic effects in indirect-drive inertial confinement fusion hohlraums L/7 Rui Yan USTC (To be determined) L/8 Dong Yang Research Center of Laser Fusion L/9 Wei Lu Tsinghua University (To be determined)		Liming Chen		Ultrahigh charge electron acceleration from solid target
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L/5 Qing Jia USTC Magnetized plasma based q-plate for generation of ultraintense optical vortices L/6 Hong-bo Cai IAPCM Study of the kinetic effects in indirect-drive inertial confinement fusion hohlraums L/7 Rui Yan USTC (To be determined) L/8 Dong Yang Research Center of Laser Fusion (To be determined) L/9 Wei Lu Tsinghua University (To be determined)			Technology	
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L/9 Wei Lu Tsinghua University (To be determined)			Research Center of Laser	
· ·	L/9	Wei Lu		(To be determined)
	L/10	Guang-yue Hu		(To be determined)



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L/11	Xian-tu He	Peking University	(To be determined)
L/12	Haifeng Liu	IAPCM	Equation of state in wide regime for Hydrogen: Construction and Validation
L/13	Wenchao Yan	ELI-Beamlines, IoP, ASCR	Inverse Compton X/γ Source Based on Laser Wake-Field Accelerator
L/14	Laurent Gremillet	CEA	High-energy photon and pair production in ultrarelativistic laser-plasma interactions
L/15	Frédéric Pérez	LULI	The electromagnetic PIC code Smilei: physics, performance and highlights
	Frederic Ferez	Rutherford Appleton	The electromagnetic Fig code Similer, physics, performance and nightights
L/16	Guoqian Liao	Laboratory Laboratory	Intense tunable terahertz bursts from picosecond laser-foil interactions
L/17	Hamad Ahmed	Queen's University Belfast	Accelerator quality beams of high-energy protons guided by intense-laser driven helical coils
L/18	Bengt Eliasson	University of Strathclyde	Vlasov simulations of relativistic Raman and Compton instabilities
L/19	Dominik Kraus	Helmholtz-Zentrum Dresden-Rossendorf	Ionization dynamics in CH plasmas at Gbar pressures
L/20	Mrityunjay Kundu	Institute For Plasma Research	Short pulse laser cluster interaction: unification of resonances
L/21	Amit Dattatraya Lad	Tata Institute of Fundamental Research	Two-Dimensional (2-D), Femtosecond Resolved High Resolution Doppler Spectrometry for Spatio-Temporal Mapping of Hot-Dense Intense Laser Produced Plasma
L/22	Amol Holkundkar	Birla Institute of Technology and Science	Higher harmonics and attosecond pulse generation by laser interaction with atomic clusters via Thomson scattering
L/23	Sudip Sengupta	Institute for Plasm Research	Spatio-temporal evolution of Buneman instability: A Particle-in-Cell simulation study
L/24	Takayoshi Sano	Osaka University	Laser-plasma interaction in overdense plasmas under strong magnetic fields
	Akifumi Yogo	•	Developments of laser neutron source and diagnostics in Japan
L/25		Osaka University	
L/26	Masakatsu Murakami	Osaka University	Relativistic proton emission from ultrahigh-energy-density nanosphere generated by micro-bubble implosion
L/27	Yoshitaka Mori	GPI	Present status of pellet injection system for repetitive inertial confinement fusion experiments
L/28	Hideo Nagatomo	Osaka University	An optimum design of a cone-inserted target implosion for reactor scale Fast Ignition
L/29	Keisuke Shigemori	Osaka University	The role of hot electrons on ultrahigh pressure generation relevant to shock ignition conditions
L/30	Yuji Fukuda	QST	Quasimonoenergetic proton bunch via interactions of micron-scale hydrogen cluster targets with PW-class laser pulses
L/31	Youichi Sakawa	Osaka University	Ion acceleration by high-intensity laser-driven collisionless electrostatic shock
L/32	Taichi Morita	Kyusyu University	Laser astrophysics experiments for studying collisionless shock and magnetic reconnection
L/33	Alexander Pirozhkov	QST	BISER at the keV spectral range
L/34	Leejin Bae	GIST	Investigation of relativistic electron transport in solid targets irradiated by ultrahigh intensity laser pulses
L/35	Ki Hong Pae	GIST	Generation of a high-density high-energy proton jet from the interaction of an ultra-intense laser pulse with a thin solid target
L/36	Kitae Lee	KAERI	Generation of quasi-monoenergetic ion spectra from layered targets irradiated by an ultraintense laser pulse
L/37	Domenico Doria	Extreme Light Infrastructure - Nuclear Physics, Romania	Extreme laser-matter interaction investigation at ELI - Nuclear Physics
L/38	Hui Chen	LLNL	Review of New Results on Laser-produced MeV Electron-Positron Pair Experiments
L/39	Paul Mabey	LULI	Towards higher resolution X-ray radiography using lithium fluoride detectors
L/40	Claire Michaut	Université de la Côte d'Azur	Numerical Simulations of High-Mach Number Astrophysical Radiative Flows with HADES
L/41	Feng Wang	Laser Fusion Research Center	Progress of ICF Diagnostic techniques and experimental results based on Shenguang laser facility in China
SG/1	Roberto Bruno	IFAF	Interplanetary plasma turbulence
SG/2	Tohru Hada	Kyushu University	Anomalous transport and acceleration of cosmic rays in the presence of MHD
SG/3	Yuto Katoh	Tohoku University	turbulence Simulation study of the whistler-mode chorus generation in the Earth's inner
99		-	magnetosphere
SG/4	Zhigang Yuan	Wuhan Unveristy	Simultaneous trapping of EMIC and MS waves by background plasmas
SG/5	Xuzhi Zhou	Peking University	Nonlinear drift resonance between charged particles and ultra-low frequency waves
SG/6	Quanqi Shi	Shandong University	Magnetic cavities in space plasmas: from MHD to kinetic scale
SG/7	Jiansen He	Peking University	Spectra of Diffusion and Dissipation Measures in Space Plasma Kinetic Turbulence
SG/8	Cojji Zomit:	-	
	Seiji Zenitani	Kyoto University	Boris-type particle solvers in particle-in-cell (PIC) simulation
SG/9	Naritoshi Kitamura	The University of Tokyo	Direct measurements of two-way wave-particle energy transfer in a collisionless space plasma
SG/10	Shuichi Matsukiyo	Kyushu University	Kinetic radial structure of heliospheric boundary
SG/11	Tomo-Hiko Watanabe	Nagoya University	Spontaneous excitation of auroral structures and Alfvenic turbulence
SG/12	Binbin Ni	Wuhan University	Formation of Reversed Energy Spectrum of Radiation Belt Electrons Caused by plasmaspheric Hiss Scattering
SG/13	Zhaojin Rong	Institute of Geology and	A new mechanism for the flapping motions of Earth's magnetotail current
SC /1.4		Geophysics, CAS	Relax of interaction between the LHE ways and analystic particles in
SG/14	Kanako Seki	University of Tokyo	Roles of interaction between the ULF waves and energetic particles in



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			acceleration of relativistic electrons in the Earth's inner magnetosphere
SG/15	Bruce Tsurutani	California Institute of Technology	The Detection and Consequences of Coherent Electromagnetic Plasma Waves
SG/16	Meng Zhou	Nanchang University	MMS observations of electron diffusion regions in the Earth's magnetosphere
SG/17	Shiyong Huang	Wuhan University	Observations of Flux Ropes Associated With Magnetic Reconnection in the Earth's Magnetosphere
SG/18	Rongsheng Wang	USTC	Interaction of magnetic flux ropes: in situ evidence
SG/19	Fumiko Otsuka	NIT, Kurume College	Self-consistent simulation of field-aligned ion beams and upstream waves in quasi-parallel collisionless shock
SG/20	Xinliang Gao	USTC	Multiband chorus waves in Earth's magnetosphere
SG/21	Lican Shan	Institute of Geology and Geophysics, CAS	Observation study of low frequency waves at Venus and Mars
SG/22	Zhongwei Yang	National Space Science Center,CAS	Analysis of energy spectra measured by New Horizons: PIC simulation results versus observations in the environment of Pluto
SG/23	Xin Tao	USTC	Nonlinear Dynamics of Electrons in Excitation of Whistler Waves with Adiabatic and Non-adiabatic Frequency Chirping
SG/24	Keizo Fujimoto	Beihan U	Large-scale modeling of magnetic reconnection by using an AMR code
SG/25	Vipin K Yadav	SPL/VSSC/ISRO	Plasma Waves in Comets
SA/1	Siyao Xu	University of Wisconsin	Turbulent dynamo in a weakly ionized medium
SA/2	Quanming Lu	USTC	Formation of power law spectra of energetic electrons during coalescence of magnetic islands
SA/3	Rui Liu	USTC	Buildup of Magnetic Flux Ropes toward Eruptions in the Solar Corona
SA/4	Lei Ni	Yunnan Observatories, CAS	Magnetic Reconnection in the partially ionized low solar atmosphere
SA/5	Takafumi Kaneko	Nagoya University	Evolution of dynamic internal structures of prominence in reconnection-condensation scenario
SA/6	Yanfei Jiang	UC, Santa Barbara	Radiation Magneto-hydrodynamic Simulations of Black Hole Accretion Disks
SA/7	Linghua Wang	Peking University	Solar Energetic Electron Events
SA/8	Lulu Zhao	Florida Institute of Technology	Modeling the precipitation and releasing pattern of solar energetic particles in the solar corona magnetic fields
SA/9	Feng Li	Purple Mountain Observatory	Understand solar eruptions with the Advanced Space-based Solar Observatory (ASO-S) mission
SA/10	Liang Xiang	Purple Mountain Observatory	Evolution of proton beams in the solar wind
SA/11	Ling Chen	Purple Mountain Observatory	The resonant and nonresonant instability of Kinetic Alfven Waves driven by fast electron beams in the beam-return current system
SA/12	Jie Jiang	Beihang University	Predictability of the solar cycle
SA/13	Yang Guo	Nanjing University	Solar Magnetic Flux Rope Eruption Simulated by a Data-driven Magnetohydrodynamic Model
SA/14	Dawei Yuan	National Astronomical Observatories, CAS	Experiment revealing the characteristics of Weibel instability with optical diagnostics
SA/15	Fabio Sattin	Consorzio RFX	Relevant heating of the solar corona by quenching Alfvén waves : a result of adiabaticity breakdown
SA/16			
SA/17	Piyali Chattariaa	Indian Institute of	Understanding solar atmospheric dynamics through MHD simulations
SA/18	Chatterjee Vainhav Pant	Astrophysics CmPA, KU Leuven,	
SA/18	Jiro Shimoda	Belgium	Forward modelling of waves in the solar coronal structures Blamer lines as diagnostics of collisionless shocks: acceleration of
3A/19	THO SIIIIIOGA	Tohoku University	non-thermal particles, the nature of shock precursor and ion-electron temperature ratio
SA/20	Kyungguk Min	Korea Astronomy and Space Science Institute	Potential Role of Mirror and Ion Bernstein Instabilities on scattering of Pickup Ions in the Outer Heliosheath
SA/21	Jungjoon Seough	Korea Astronomy and Space Science Institute	What regulates temperature anisotropy in the expanding solar wind?
SA/22	Kun-Han Lee	Academia Sinica	Voyager 1 observations of interstellar electron and magnetic turbulence spectra
SA/23	Minping Wan	Southern University of Science and Technology of China	Energy cascades and dissipation in kinetic plasma turbulence
SA/24	Muni Zhou	MIT	Magnetic island merger as a mechanism for inverse magnetic energy transfer
MF/1	Matthew Hole	ANU	The impact of anisotropy on ITER scenarios and ELMs
MF/2	Henri Weisen	EPFL and JET	Isotope dependence of energy, momentum and particle confinement in tokamaks
MF/3	Guoyao Zheng	SWIP	Integrated analysis of core and edge for HL-2M operation
MF/4	Zhanhui Wang	SWIP	Self-consistent multi-scale integrated modeling of ELM mitigation due to
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uoliang Xiao	SWIP	The Mechanism of ELM Mitigation with Different External Source Input on HL-2A Tokamak
eiwan Shi	SWIP	Destabilization of beta induced and reversed shear Alfven eigenmode on HL-2A tokamak
inming Shao	ASIPP	Recent progress of L-H transition physics and H-mode power threshold studies in EAST
o Lyu	ASIPP	Overview of experimental investigation of LHCD's effect on plasma rotation on EAST
uosheng Xu	ASIPP	Advances in understanding high-performance small/no ELM H-mode regimes
iping Yuan	ASIPP	Achievements of active feedback control of divertor heat load in EAST Plasma Control System
hongshi Yang	ASIPP	Experiments and simulations for power exhaust by impurity seeding on EAST and future devices
iming Yu	SWIP	Observation of High-frequency Chirping Modes Driven by Energetic Ions on HL-2A
ın Cheng	SWIP	Experimental study of the interaction between oscillation flows and turbulence across a transition to H mode in edge plasma
ei Chen	SWIP	Nonlinear Dynamics of Alfvén Eigenmodes in HL-2A NBI Plasmas
uizhong Zuo	ASIPP	Improvement of plasma performance with flowing liquid lithium PFCs in EAST
im Happel	MPI for Plasma Physics	Overview of ASDEX Upgrade I-mode results and extrapolation to future devices
like Dunne	MPI for Plasma Physics	Pedestal physics for burning plasmas at AUG
eronimo Garcia	IRFM, CEA	On the validity of scale invariance and power laws for describing and predicting confined plasmas
amuele Mazzi	Aix-Marseille University	Impact of fast ions on microturbulence and transport: expectations for JT-60SA and ITER
abio Riva	UKAEA	Comparison of three-dimensional plasma edge turbulence simulations in realistic double null tokamak geometry with experimental observations
mitry Borodin	EUROfusion JET	Plasma-surface interaction studies in preparation of JET-ILW TT and DT operation: insight and extrapolation to ITER by the ERO2.0 modelling
Ionica polaore	Consorzio RFX	Edge Localized Modes electromagnetic fine structure in the Scrape-Off Layer of tokamak discharges
litsuru Kikuchi	Osaka University	Advances in physics basis of L-mode edge negative triangularity tokamak reacto
ao Wang	NFRI	Nonlinear simulation of energetic particle driven geodesic acoustic mode channeling in LHD
nil Chung	NFRI	Experimental studies on advanced operation scenarios in KSTAR
	PPPL	Emerging Picture on the Pedestal Dynamics and Triggering Mechanism of ELMs
atima Ebrahimi	PPPL	Plasmoid-mediated magnetic reconnection: From space to fusion plasmas
an Thomas	General Atomics	Closure, Detachment, and Energy Dissipation Studies Using the DIII-D Small Angle Slot Divertor
ndrea Garofalo	General Atomics	The high poloidal beta path towards steady state tokamak fusion
o-Han Yu		Revolution in Microwave Imaging of Magnetic Fusion Plasmas
hen Sun	PPPL	Real-time impurity injection for ELM and H-mode pedestal control in EAST
Iax Austin	University of Texas	Confinement and stability in DIII-D negative triangularity discharges and relevance for reactor devices
	PPPL	Integrated modeling: successes, challenges and path forward to ensure the success of ITER
	PPPL	Enhanced Pedestal H-mode Regime on NSTX
amuell	LLNL	Velocity Imaging for Understanding Particle Transport in the Boundary of Magnetically Confined Plasmas
_	University of Wisconsin	Role of turbulence and shear flow dynamics in the L-H transition and power threshold scaling
shourvan	PPPL	Formation of a Staircase Pedestal in High Confinement DIII-D Plasmas with RMP Suppressed Edge-Localized-Modes
	MPI for Plasma Physics	Nonlinear dynamics of energetic-particle driven geodesic acoustic modes in ASDEX Upgrade
i Hu	Beihang University	Simulation and analysis of MHD response and radiation asymmetry after Shattered Pellet Injection in ITER plasmas
ei Qi	NFRI	Gyrokinetic Simulation Study of Zonal Flow Staircases in a KSTAR L-mode Plasma
hyung Kim	NFRI	Effects of resonant magnetic perturbations on nonlinear resistive reduced MHD simulations
rome Bucalossi	CEA	First experiments in WEST with tungsten plasma facing components
enji Imadera	Kyoto University	Effect of kinetic electron dynamics on ITB formation in flux-driven ITG/TEM turbulence
e ii c u i h ii u 7 u ii li li a a r li p li a a h r s a a h r s a a h	ciwan Shi nming Shao D Lyu Luosheng Xu Liping Yuan nongshi Yang ming Yu n Cheng Tei Chen Luizhong Zuo m Happel Like Dunne ronimo Garcia Lumuele Mazzi Libio Riva mitry Borodin Lonica Lololaore Litsuru Kikuchi Lao Wang Lien Dominski Lima Ebrahimi Lan Thomas Landrea Garofalo Landr	swip siwan Shi swip nming Shao ASIPP Delyu ASIPP subsheng Xu sping Yuan ASIPP subsheng Xu swip subsheng Xu swip subsheng Xu swip swip subsheng Xu ASIPP subsheng ASIPP subsheng Xu swip swip swip swip swip swip swip swip



MF/44	Erik Gilson		Initial Experimental Results on Boron and Boron Nitride Powder Injection
		PPPL	Into KSTAR Discharges
MF/45	Nami Li	Dalian Institute of	Simulations of radial electric field and divertor heat flux width using the
		Technology	BOUT++ transport code with drifts
MF/46	Sadruddin	CNRS-Aix Marseille	A New Artificial Intelligence Approach of Electromagnetic Self-organization and
	Benkadda	University	Multiscale Physics in Magnetized Plasma

[16] Venue detail

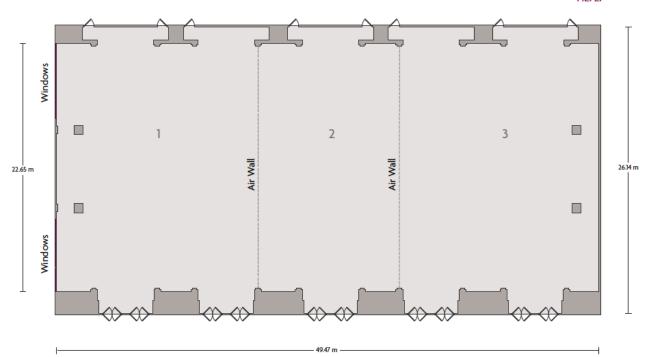
Conference venue is Crown Plaza Hefei.

Session name	Room name	Capacity
Plenary	Fenghua Ballroom1+2+3	650 Seats
Cross Disciplinary session	Mahogany Room 紫檀厅	area 89 m^2, max 60 Seats
Fundamental Plasma session	Willow Room 杨柳厅	area 89 m ² , max 60 Seats
Basic plasma session-1	Acacia Room 藤金厅	area 84 m^2, max 60 Seats
Basic-2/Applied-2	Oak Room 橡树厅	area 82 m ² , max 60 Seats
Applied plasma session-1	Birch Room 白桦厅	area 84 m^2, max 60 Seats
Laser plasma -1 (inc. L-semi plenary)	Fenghua Ballroom3	area 500 m ² , 265 Seats
Laser plasma session -2	Maple Room 红枫厅	area 89 m^2, max 60 Seats
Space and Geomagnetism plasma session	Cypress Room2	160 m^2, 60 Seats
Solar and Astro plasma session	Cypress Room1	228 m ² , 110 Seats
Magnetic Fusion plasma session-1	Fenghua Ballroom1	area 500 m ² , 265 Seats
Magnetic Fusion plasma session-2	Fenghua Ballroom 2	area 328 m^2, 120 Seats
Poster session	Pre-function Area (Foyer)	567m^2

Fenghua Grand Ballroom: Plenary, MF-1,2, L-1

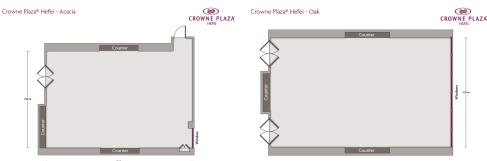
Crowne Plaza® Hefei - Fenghua Grand Ballroom





Basic-1(Acacia), Basic-2/ Applied-2(Oak), Applied-1(Birch)





Birch: no photo

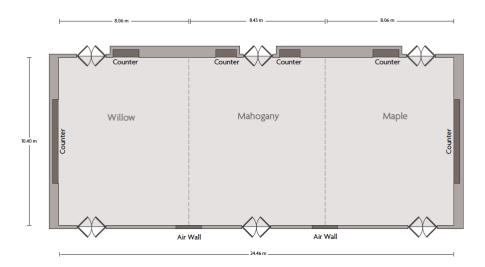
CD (Cross-disciplinary): Mahogany Room 紫檀厅

F (Fundamental): Willow Room 杨柳厅

Lase-2: Maple Room 红枫厅

Crowne Plaza® Hefei - Willow, Mahogany & Maple





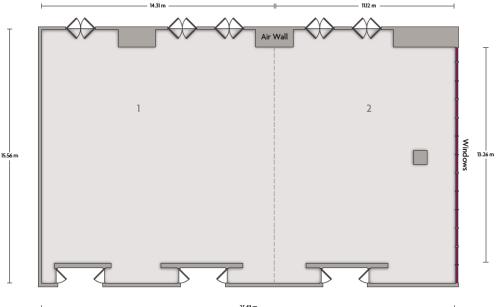
Space and Geomagnetism plasma: Cypress Room2

Solar and Astro plasma: Cypress Room1



Crowne Plaza® Hefei - Cypress





[17] Prize and Award

We have following prize and awards.

1. 2019 S. Chandrasekhar Prize of Plasma Physics

2. 2019 AAPPS-DPP Innovation Prize

3. 2019 AAPPS-DPP Young Research Award (U40)
 4. AAPPS-DPP U30 Doctoral Scientist/Student Award
 5. AAPPS-DPP 2019 Poster Prize
 5. Selection committee chair: Prof. Kunioki Mima
 6. Selection committee chair: Prof. Xuru Duan

Note: 2019 S. Chandrasekhar Prize winner should give plenary talk at APPC-14 (Borneo island). Sponsors for 2019 S. Chandrasekhar prize are ENN and Top Glove Foundation.

[18] IOC Members

IOC Chair: Yuanxi Wan (CN), I-HAC, Professor, ASIPP/USTC

IOC Co-chairs:

Mitsuru Kikuchi (JP), AAPPS-DPP Chair/CEO, RMPP chair, Baonian Wan (CN), DPP Chair-Elect, Director, ASIPP, Abhijit Sen (IN), I-HAC co-chair,

Professor, IPP, Hyeon Park (KR), I-HAC, Professor, UNIST

General PC Co-chair: Xuru Duan (CN), DPP Vice Chair, Vice President, SWIP

AAPPS-DPP I-HAC chair: Liu Chen (CN), I-HAC chair, Professor, Zhejiang University

APS-DPP chair: David Newman, Professor, University of Alaska

EPS-DPP chair: Richard Dendy (EU), Professor, University of Warwick

LOC-Chair: Ge Zhuang (CN), Professor, USTC

JPS (plasma chair): Hideo Sugama (JP), Professor, Kyushu University

CPS-DPP chair: Xiaogang Wang (CN), Professor, HIT

KPS-DPP Chair: Dong-o JEON (KR), Institute for Basic Science

 $\textbf{Plasma Science SI, President:} \ \textbf{Prabal K Chattopadhyay (IN), Professor, IPR}$

Astronomical Society of Japan, President: Kazunari Shibata, I-HAC, Professor, Kyoto University Chinese Astronomical Society, President: Yipeng Jing, Professor, Shanghai Jiaotong University

SGEPSS, President: Yasuharu Omura (JP), Professor, Kyoto University

Chinese society of Space research, Director general: Ji Wu (CN), Professor, National Space Science, CAS

Laser Society of Japan, President: Yoshiaki Kato (JP), President, GPI

JSPF, President: Zensho Yoshida (JP), Fundamental PC chair, Professor, the University of Tokyo

JSAP-DPE, Chair: Mineo Hiramatsu (JP), Professor, Meijyo University

AAAPT, President: Rajdeep S. Rawat (SG), DPP Vice Chair, Associate Professor, NTU

Australian ITER Forum, Chair: Matthew Hole (AU), DPP chief secretary, A. Professor, ANU

Representatives from fields

Cross-Disciplinary:

Patrick Diamond (US/CN), I-HAC, CD PC chair, distinguished Professor, UCSD

Fundamental

Akira Hasegawa (JP), I-HAC, Em Professor, Osaka University, Robert Dewar (AU), I-HAC, RMPP-HE, Em Professor, ANU, Sanae I. Itoh (JP), I-HAC, Em Professor, Kyushu University, Chio Zong Cheng (TW), I-HAC, Chandrasekhar Laureate, Em. Professor, NCKU, ChuanSheng Liu (US), I-HAC, Professor, University of Maryland, Yasushi Ono (JP), RMPP-AE, Professor, the University of Tokyo, Guoyang Fu (CN), Professor & Director, Zhejiang University,



Taik Soo Hahm (KR), RMPP-CE, Professor, SNU, Fulvio Zonca (IT), Prof/Dr., ENEA& Zhejiang University, Dominique Escande (FR), Professor, Aix-Marseille Universite, CNRS, PIIM

Basic

Tomohiko Watanabe (JP), Basic PC chair, RMPP-AE, Professor, Nagoya University, Lin I (TW), Basic PC co-chair, I-HAC, Academician & Professor, NCU, Shunjiro Shinohara (JP), Basic PC co-chair, Professor, TUAT, Shin-Hung Chen (TW), DPP Vice Chair, Professor, NCU, Horoshi Akatsuka (JP), Professor, TITECH, Rajaraman Ganesh (IN), RMPP-AE, Professor, IPR, A A Mamun (BG), RMPP-AE, Professor, Jahangirnagar University, Yaming Zou (CN), Professor, Modern Physics Institute, Fudan University, Kwo Ray Chu (TW), Professor, National Taiwan University, Chiow-San Wong (MY), I-HAC, Em. Professor, University of Malaya, Osamu Ishihara (JP), I-HAC, President, Chubu University, Choong-Seock Chang (US), Chief Scientist, Princeton Plasma Physics Laboratory, Cary Forrest (US), Professor/Director, University of Wisconsin , Yoshiharu Uesugi (JP), Professor, Kanazawa University, Mike Mauel (US), Professor, Columbia University

Applied:

Yi-Kang Pu (CN), Applied PC chair, RMPP-CE, Professor, Tsinghua University, Wonho Choe (KO), Applied PC co-chair, Professor, KAIST, Masaharu Shiratani (JP), Applied PC co-chair, DPP vice chair, Kyushu University, Roderick Boswell (AU), I-HAC, Applied PC co-chair, RMPP-CE, Professor, ANU, Jung-Sik Yoon (KR), DPP Vice Chair, National Fusion Research Institute, Rikizo Hatakeyama (JP), I-HAC, Em Professor, Tohoku University, Francis F. Chen (US), I-HAC, Professor, UCLA, Masaru Hori (JP), Professor, Graduate school of Engineering, Nagoya University, Paul Kim Ho Chu (HK), Chair Professor, City University of Hong Kong, Suk Jae Yoo (KO), I-HAC, President, National Fusion Research Institute Ashish Gangul (IN), Professor, Indian Institute of Technology, Deepak Prasad Subedi (NP), Director of Research, RDC, Kathmandu University, Teck Yong Tou (MY), Multimedia University

Laser and Particle Beams:

Jie Zhang (CN), Laser PC Chair, Professor, IOP, Kunioki Mima (JP), I-HAC, Laser PC co-chair, Professor, GPI, Zheng Ming Sheng (CN), Laser PC co-chair, Professor, SJTU, G. Ravindra Kumar (In), Laser PC co-chair, Professor, Tata Institute of Fundamental research, Hyyong Suk (KR), Laser PC co-chair, Professor, Chair, GIST, Amita Das (IN), DPP Vice Chair, RMPP-AE, Professor, IPR, Ryosuke Kodama (JP), Professor&Director, ILE, Graduate School of Engineering, Osaka University, Hitoki Yoneda (JP): Professor & Director, Institute of Laser Science, University of Electric Comm., Tetsuya Kawachi (JP): Director General, KPRI, QST, Chang Hee Nam (KO), I-HAC, Laser PC co-chair, Professor & Director, GIST, Xian-Tu He (CN), I-HAC, Academician, Peking University, Heinrich Hora (AU), I-HAC, Professor, University of New South Wales, Toshiki Tajima (US), I-HAC, Professor, UCI, Sylvie Jacquemot (EU), Professor, Ecole Polytechnique, E. Michael Campbell (US): Professor, User, Osaka University of Rochester, Hideaki Takabe (DE), Professor/Dr., HZDR, Kazuo Tanaka (RO), Professor/Scientific Director, ELI-NP, Youichi Sakawa (JP), Professor, Osaka University

Space and Geomagnetism:

Xiaohua Deng (CN), DPP Vice Chair, Vice President, Nanchang University, Ryouichi Fujii (JP), I-HAC, President, Research Organization of Information Sciences, Zuyin Pu (CN), I-HAC, Professor, Peking University, Lou-Chuang Lee (TW), I-HAC, Chandrasekhar Laureate, Academician, Academia Sinica, Lin Ni Hau (TW), Professor, National Central University, Bimla Buti (IN), I-HAC, Founder & President, Buti Foundation, Don Melrose (AU), I-HAC, Chandrasekhar Laureate, Em. Professor, University of Sydney, Iver Cairns (AU), Professor, University of Sydney, Dong-Hun Lee (KR), I-HAC, RMPP-AE, Professor, Kyung Hee University, Yu Lin (US), RMPP-CE, Professor, Auburn University, Masahiro Hoshino (JP), Professor, University of Tokyo Toru Hada (JP), Professor, Kyushu University, Bruce Tsurutani (US), Jet Propulsion Laboratory, California Institute of Technology, Daniel Baker (US), Professor, University of Colorado LASP, Boulder

Solar/Astro:

Ryoji Matsumoto (JP), SA PC Chair, DPP Vice chair, RMPP AE, Professor, Chiba University, Peng-Fei Chen (CN), SA PC co-Chair, RMPP-AE, Professor, Nanjing University, Jungyeon Cho (KR), SA PC co-Chair, Chungnam National University, Hantao Ji (US), SA PC co-Chair, Professor, Princeton University, Arnab Rai Chaudhuri (IN), I-HAC, Professor, Department of Physics, Indian Institute of Science, Dipankar Banerjee (IN), Professor, Indian Institute of Astrophysics, Kanya Kusano (JP), Professor&Director, Nagoya University, Dongsu Ryu (KO), Professor, Department of Physics, UNIST, Jingxiu Wang (CN), I-HAC, Professor, UCAS, Kazuo Makishima (JP), Em. Professor, the University of Tokyo, Rony Keppens (DE), Professor, Ku Leuven, Joerg Buechner (DE), Professor, Max-Planck-Institute for Sonnensystemforschung

Magnetic Fusion:

Yasuaki Kishimoto (JP), MF PC-co-chair, Professor& director of IAE, Kyoto University, Min Xu (CN), MF PC-co-chair, Professor, SWIP, Akio Komori (JP), I-HAC, President, National Institutes of Natural Science, Tomohiro Morisaki (JP), Executive director, Large Helical Device (LHD), NIFS, NINS, Sibylle Guenter (EU), Scientific director, Max Planck Institute for plasma physics, Anthony Donne (EU), Programme Manager for the consortium EUROfusion., Alain Becoulet (EU), Head of Institute, Institute for Research on Magnetic Fusion, CEA/ Cadarache, Tony Taylor (US), Vice president, GA, USA, Francois Waelbloeck (US), Director, Institute for Fusion Study, University of Texas, Ian Chapman (UK), Director, CCFE, Takaaki Fujita (JP), Professor, Nagoya University, Won Namkung(KR), Em. Professor, POSTECH, Yutaka Kamada (JP), Deputy director General, Naka, QST, Joaquin Sanchez (ES), Director, CIEMAT, Piero Martin (IT), Professor, University of Padova and Consorzio RFX, Ambrogio Fasoli (CH), Professor/Director, SPC, EPFL, Dennis Whyte (US), Professor, MIT, Richard Hawryluk (US), Associate Director for Fusion, PPPL, Hiroshi Yamada (JP), Fellow Professor, NIFS, Kenichi Kurihara (JP), Director General, Naka, QST, Takeo Muroga (JP), Deputy Director General, NIFS, Yong Liu (CN), I-HAC, President, SWIP, Kun Lu (CN), ASIPP, Keeman Kim (KR), NFRI, Aparajita Mukharjee (IN), IPR, Yican Wu (CN), Director, INEST, Hartmut Zohm (DE), Member of Board of Director, Max Planck Institute for Plasma Physics, Shashank Chaturvedi (IN), Director, Institute for Plasma Research

[19] Scientific Program Committee

General PC chair: M. Kikuchi (AAPPS-DPP Chair), Co-chair: Xuru Duan (AAPPS-DPP Vice-Chair)

There will be plenary session and parallel sessions from 8 sub-disciplines; CD and F sessions have focused topics.

1. **Cross-disciplinary** (Focused Topics):

Chair; Patrik Diamond (UCSD),

Co-chairs: Lu Wang (HUST), Yusuke Kosuga (Kyushu U), Xavier Garbet CEA), David Hughes (Leeds U), Shigeo Yoden(Kyoto U)

2. Fundamental plasma physics (Focused Topics):

Chair; Zensho Yoshida (U Tokyo)

Co-chairs Robert Dewar (ANU), T.S. Hahm (SNU), Hong Qin (USTC), Phillip Morrison (U Texas)

3. Basic plasma:

Chair; Tomohiko Watanabe (Nagoya U)

Co-chairs; Lin I (NCU), S. Shinohara (TUAT), Prabal Chattopadhyay (IPR), Ding Li (IOP-CAS)

Members: Feng Yan (Soochow University), JinLin Xie (USTC), A.A. Mamun (GK), Kenichi Nagaoka (NIFS), Atsushi Okamoto (Nagoya University), Yasushi Ono (U. Tokyo), Frank Jenko (IPP-MPI)

4. Applied plasma:

Chair; Yikang Pu (Tsinghua U)

Co-chairs; Wonho Choe (KAIST), Masaharu Shiratani (Kyushu U), Rod. Boswell (ANU)



Members: Tony Murphy (CSIRO), Kazunori Takahashi (Tohoku U), Keh-Chyang Leou (National Tsinghua U), Tsanko Vaskov Tsankov (Ruhr-University Bochum), Svetlana Starikovskaia (Ecole Polytechnique), Mikhail Shneider (Princeton University)

5. Laser plasma:

Chair; Jie Zhang (SJTU)

Co-chairs; K. Mima (GPI), ZM Sheng (SJTU), Hyyong Suk (GIST), Ravindra Kumar (TIFR)

Members: Jian Zheng (USTC), Yongtao Zhao (XJTU), Ke Lan (IAPCM), Yuji Fukuda (QST), Youichi Sakawa (Osaka U), Chang Hee Nam (GIST), Kitae Lee (KAERI), Sudip Sengupta (IPR), M. Krishnamurthy (TIFR), Michel Koenig (LULI), Chikang Li (MIT), Stefan Weber (ELI), Frederico Fiuza (SLAC)

6. Space & Geomag plasma:

Chair; Xiaohua Deng (Nanchang U)

Co-Chairs; Tohru Hada (Kyushu U), Lakhina Gurbax(Indian Institute for Geomagnetism) ,Bruce Tsurutani (Caltech), Quanming Lu (USTC), Zhou Meng (Nanchang U), Dong-He Lee (Kyung Hee U)

7. Solar & Astro plasma:

Chair; Ryoji Matsumoto (Chiba U)

Co-chairs; Pengfei Chen(Nanjing U), Hantao Ji(Princeton U), Jungyeon Cho(Chungnam National U), Shu-ichiro Inutsuka(Nagoya U) Members; Kazunari Shibata (Kyoto U), Dongsu Ryu (UNIST), Feng Yuan (Shanghai Astronomical Observatory), Dipankar Banerjee (Indian Institute of Astrophysics), Pin-Gao Gu (ASIAA), Siming Liu (Purple Mountain Observatory), Hui Li (Los Alamos National Laboratory), Kyungsuk Cho (Korea Astronomy and Space Science Institute)

8. Magnetic Fusion plasma:

Chair; Hyeon Park (UNIST)

Co-chairs; Min Xu (SWIP), Y. Kishimoto (Kyoto U)

Members; Yong-Seok Hwang (SNU), Guosheng Xu (ASIPP), Shaojie Wang (USTC), Katsumi Ida (NIFS), Takaaki Fujita (Nagoya U), Wulyu Zhong (SWIP), Abhijit Sen (IPR), Gunsu Yun (POSTECH), Siwoo Yoon (NFRI), Matthew J. Hole (ANU), Tuong Hoang(CEA), George McKee (Wisconsin/ GA), Steven A. Sabbagh (Columbia/PPPL)

[20] Local Organizing Committee (LOC)

LOC Chair: Ge Zhuang (USTC)

LOC Secretary: Jinlin Xie (USTC), Zhengwei Wu (USTC)

LOC Member: Yuntao Song (ASIPP), Shaohua Dong(ASIPP), Min Xu (SWIP), Wulv Zhong (SWIP), Yuming Wang (USTC), Quanming Lu (USTC), Wandong Liu (USTC), Jinxiu Ma (USTC), Shaojie Wang (USTC), Hong Qin (USTC), Jian Zheng (USTC), Xiaodong Zhu (USTC), Xuan Sun (USTC), Xiaofang Wang (USTC), Minyou Ye (USTC), Weihong Yang (USTC), Huishan Cai (USTC), Tao Lan (USTC), Haijun Ren (USTC), Jian Liu (USTC), Adi Liu (USTC), Hong Li (USTC), Pengfei Zhang (USTC), Guangyue Hu (USTC)