



1st Announcement on 8th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2024)

November 3-8, 2024, Grand Swiss-Bel Hotel, Malacca, Malaysia

Organized by AAPPS-DPP

<https://www.aappsdp.org/DPP2024/index.html>

Issued on July 24, 2024, rev 8-29
AAPPS-DPP and LOC(MIP)

The Division of Plasma Physics of the Association of Asia Pacific Physics Societies (AAPPS-DPP) has been successfully organizing annual conferences on plasma physics in the Asia Pacific region for the past 7 years. The 1st Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2017) was held during September 18-23, 2017 in Chengdu, China (<http://aappsdp.org/DPP2017rogramlatest/index.html>) followed by AAPPS-DPP2018 (<https://www.aappsdp.org/DPP2018/index.html>) during November 12-17, 2018 in Kanazawa, Japan and AAPPS-DPP2019 (<http://aappsdp.org/DPP2019/index.html>) during November 4-8, 2019 in Hefei, China. The subsequent three conferences AAPPS-DPP2020 (<http://aappsdp.org/DPP2020/index.html>), AAPPS-DPP2021 (<http://aappsdp.org/DPP2021/index.html>) and AAPPS-DPP2022 (<http://aappsdp.org/DPP2022/index.html>) were held as online conferences using the Zoom platform. We returned to an in-person format in the 7th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2023) which was held from Nov. 12-17, 2023 in Port Messe Nagoya, Japan (<https://www.aappsdp.org/DPP2023/index.html>). 8th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2024) will be held in Grand Swiss-Bel Hotel, Malacca, Malaysia during Nov. 3-8, 2024, co-organized by Malaysian Institute of Physics (MIP).

[1] Scope of the AAPPS-DPP2024:

AAPPS-DPP2024 is a plasma physics conference under the authority of AAPPS-DPP for scientific discussions on plasma physics. This conference provides interdisciplinary and in-depth discussions among and in various fields of plasma physics and applications.

[2] Organization:

AAPPS-DPP (<http://aappsdp.org/AAPPSDPP/>) is organizing body of this conference.

MIP co-organizes this conference and acts as LOC.



AAPPS-DPP chair
& 2024 IOC chair
Abhijit Sen



AAPPS-DPP CEO
& 2024 General PC chair
Mitsuru Kikuchi



LOC chair
MIP President
Teck Yong Tou

AAPPS guideline: AAPPS-DPP is a division under AAPPS and will follow guidelines of AAPPS council.

Disclaimer: The attendance of AAPPS-DPP2024 conference is at own risk. While the organizers will make every effort to conduct this conference according to the announced schedule, unlikely, unforeseen circumstances may result in change of the schedule or cancelation of the conference. These changes will be posted at the conference website. No liability is assumed for inaccuracy, misdescription, delay, damage, and loss.

Fraud attempt to participants: There were some phone calls and follow-up emails asking for credit card information for hotel accommodations to the speakers of past in-person conferences. Do not respond and ignore in case. It is fraud attempt.



[3] **Conference Period:** November 3 (Sunday) -8 (Friday), 2024

[4] **Sponsors**

AAPPS-DPP2024 is financially supported by:

1. Asia Pacific Center for Theoretical Physics (APCTP, <https://www.apctp.org/main/>)
2. IFE Forum (Sponsor for 2024 U30 Award) <https://www.ilt.or.jp/ife-forum/>
3. Springer (Exhibition), <https://www.springer.com/jp>
4. Plasma Science Society of India (Chandrasekhar Medal) <http://www.pssi.in/>
5. Malaysia Convention & Exhibition Bureau (reception and bag) <https://www.myceb.com.my/>
6. Powerwell Holding Berhad, Malaysia (local support) <https://www.powerwell.com.my/>
7. Reviews of Modern Plasma Physics/AAPPS Bulletin Springer(Poster Prize) <https://link.springer.com/journal/41614>
8. International Union of Pure and Applied Physics (IUPAP, <https://iupap.org/>)
9. Fundamental Plasma Physics/Elsevier(Student Poster Prize) <https://elsevier.marketing/journal/Fundamental-Plasma-Physics>



[5] **Conference Venue:**

Conference will be in-person at Grand Swiss-Bel Hotel, Malacca, Malaysia..

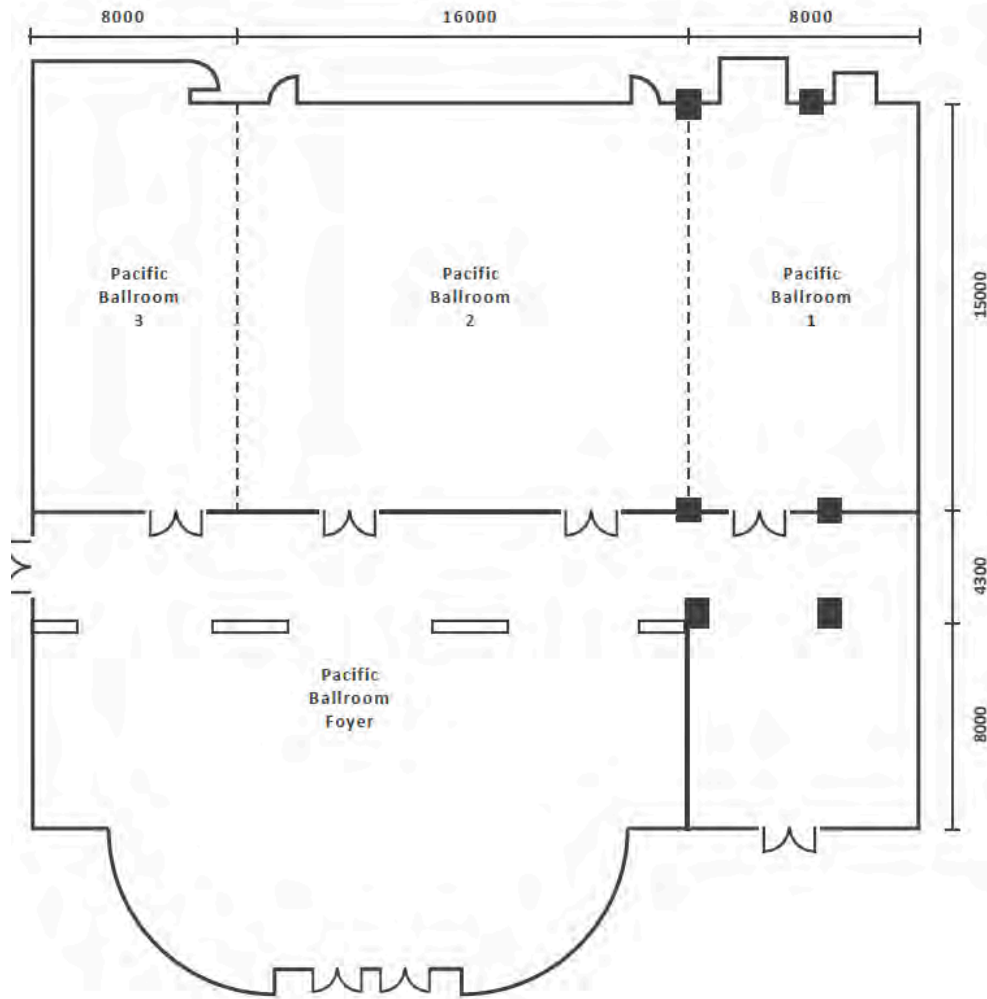


Malaysia (Kuala Lumpur & Malacca)

Grand Swiss-Belhotel, Malacca

5.1 Pacific Ballroom for Plenary Talks

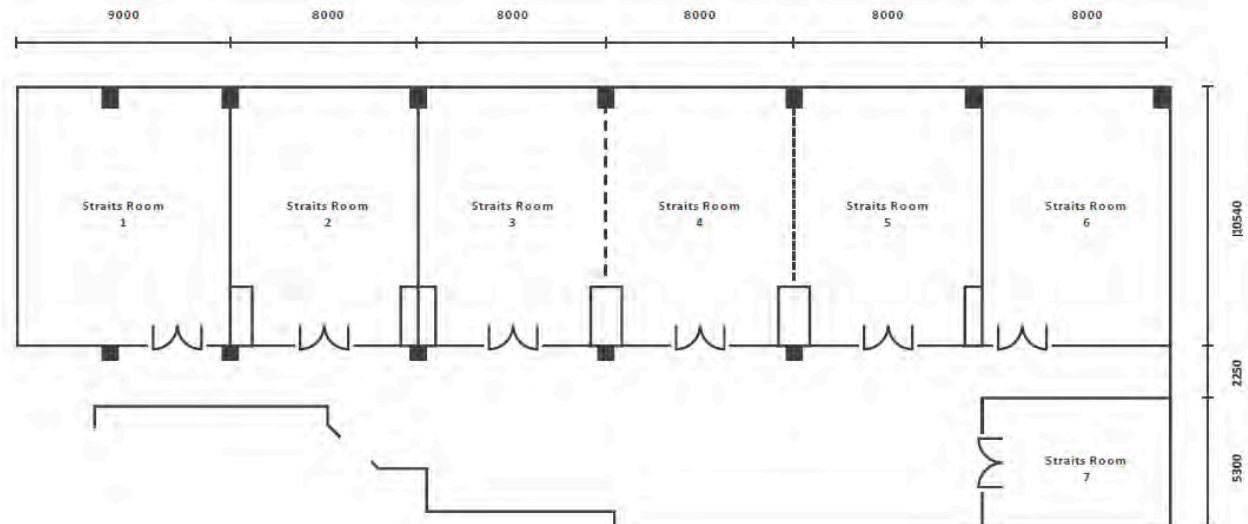
All plenary talks will be given at the Pacific Ball Room at Level 6.



5.2 Parallel Sessions, Poster/Exhibition Sessions

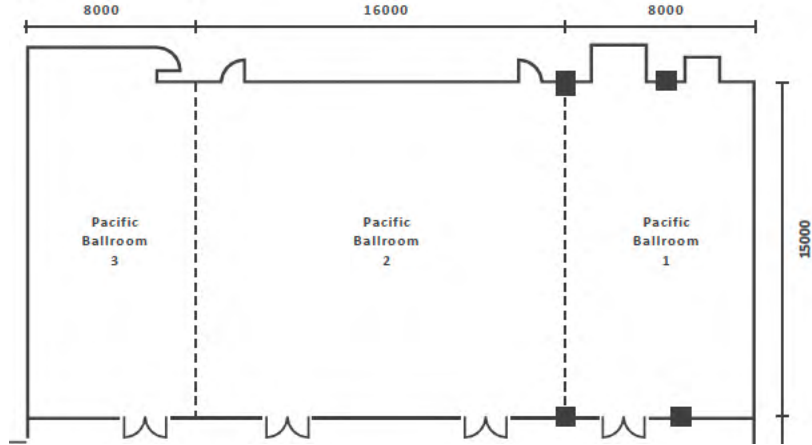
There will be 9 parallel sessions in Straits Rooms(level 7), Ball Rooms and Peninsular Room(level6).

1) Parallel sessions in Straits Rooms

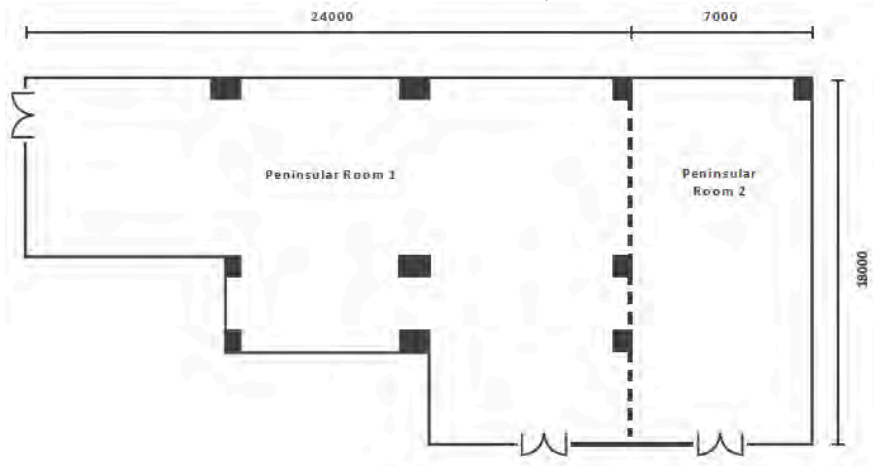




2) Parallel sessions in Pacific Ballroom 1,2,3



3) Parallel sessions and Poster/Exhibition in Peninsular Room 1,2



5.3 Room Arrangement (tentative)

	Seats theatre/class	Monday 2024.11.4 13:30-18:10	Tuesday 2024.11.5 13:30-18:10	Wednesday 2024.11.6 13:30-18:10	Thursday 2024.11.7 14:00-18:10	Friday 2024.11.8 14:00-16:10
Pacific Ballroom1	110/60	MF2-1,2	MF2-3,4	MF2-5,6	MF2-7,8	MF2-9
Pacific Ballroom2	200/120	MF1-1,2	MF1-3,4	MF1-5,6	MF1-7,8	MF1-9
Pacific Ballroom3	110/60	B-1,2	B-3,4	B-5,6	B-7,8	B-9
Straits Room 1	80/50	L-1,2	L-3,4	L-5,6	L-7,8	L-9
Straits Room 2	60/30	SG-1,2	SG-3,4	SG-5,6	SG-7,8	SG-9
Straits Room 3	60/30	SA-1,2	SA-3,4	SA-5,6	SA-7,8	SA-9
Straits Room 4	60/30	A-1,2	A-3,4	A-5,6	A-7,8	A-9
Straits Room 5	60/30	F-1,2	F-3,4	F-5,6	F-7,8	F-9
Straits Room 6	60/30	CD-1,2	CD-3,4	CD-5,6	CD-7,8	CD-9
Straits Room 7	30	Satellite WS	Satellite WS	Satellite WS	Satellite WS	Satellite WS
Peninsular Room 1	24m x 18m	Poster/Exhibition	Poster/Exhibition	Poster/Exhibition	Poster/Exhibition	Poster/Exhibition
Peninsular Room 2	100/60					

[6] Basic Structure of Scientific Program:

Conference will run from Sunday(Nov. 3) to Friday (Nov. 8). Morning sessions will be plenary session (no parallel session) in principle which may include ~34 plenaries (30 minutes). Afternoon session will be dedicated for parallel sessions with topical plenary(40min), Invited(25min or 20min), and oral(15min).

Conference covers following sub-disciplines of plasma physics; CD. Cross-disciplinary, F. Fundamental plasma, B. Basic plasma, A. Applied plasma, L. Laser plasma, SG. Space / Geomagnetism plasma, SA. Solar / Astro plasma, MF1. Magnetic Fusion plasma (Core), MF2. Magnetic Fusion plasma (Edge).



1. “Cross Disciplinary” topics is “Pattern and Structure Formation in Turbulence”.
2. “Fundamental” covers 1. Mathematical plasma physics, 2. MHD and Reconnection, 3. Kinetic MHD, 4. Plasma turbulence, 5. Gyro kinetic, 6. NC transport, 7. Turbulent transport, 8. Current Drive, 9. Relativistic plasma physics.
3. “Basic” covers 1. Plasma Simulation, 2. Strongly-coupled& Dusty& Quantum plasmas, 3. Atomic& Molecular in plasma and plasma-wall interaction for astro/solar/space, laser, low temp and fusion applications, 4. Plasma Diagnostics, 5. Non-neutral plasma, 7. Plasma propulsion, 8. Plasma source and plasma heating system.
4. “Applied” covers Plasma processing, Plasma Medicine, Plasma Agriculture, Arc welding, High voltage discharge, Low temperature plasma, etc.
5. “Laser” covers Laser plasma interaction and its application such as Laser fusion, Laser wake field acceleration.
6. “Space/Geomagnetism” covers space and geomagnetic plasma physics.
7. “Solar/Astro” covers solar plasma physics and astro plasma physics.
8. “MF1 (Magnetic fusion (Core))” covers magnetic confinement fusion plasma (core).
9. “MF2 (Magnetic fusion (Edge))” covers magnetic confinement fusion plasma, edge, SOL and divertor).

Version 2024.07.24

8th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP 2024)
Grand Swiss-Belhotel Melaka 3-8, Nov, 2024

Sunday (2024.11.3)	Monday (2024.11.4)	Tuesday (11.5)	Wednesday (11.6)	Thursday (11.7)	Friday (11.8)
	Registration: 8:00~ 8:30-10:00: Opening (Chair: TY Tou)	Registration: 8:00~ 8:30-10:30: Plenary2 Chairs:	Registration: 8:00~ 8:30-10:30: Plenary4 Chairs:	Registration: 8:00~ 8:30-10:30: Plenary 6 Chairs:	Registration: 8:00~ 8:30-10:30: Plenary 8 Chairs:
		8:30-9:00: PL-5 Sun Hee Kim(MF1)	8:30-9:00: PL-12 Peter Reed (CD)	8:30-9:00: PL-19 Shaojie Wang(F)	8:30-9:00: PL-26 Shuzo Inoue (MF1)
		9:00-9:30: PL-6 Guizhong Zhao(MF2)	9:00-9:30: PL-13 Abhav Kumar Singh(SG)	9:00-9:30: PL-20 Fumitoshi Kim(CD)	9:00-9:30: PL-27 Chandra P Dhand(MF2)
		9:30-10:00: PL-7 Guangjin Choi(CD)	9:30-10:00: PL-14 Michael Wheatland(SA)	9:30-10:00: PL-21 Jaehyun Lee(B)	9:30-10:00: PL-28 Quan-Zhi Zhang (A)
		10:00-10:30: PL-8 T.H. Watanabe(F)	10:00-10:30: PL-15 Lumjin Chen(SG)	10:00-10:30: PL-22 Daigado-Apencio (MF1)	10:00-10:30: PL-29 Sudeep Usman(SG)
	10:00-10:30: Photo Break	10:30-11:00: Coffee break	10:30-11:00: Coffee break	10:30-11:00: Coffee break	10:30-11:00: PL-30 Sudeep Bhattacharjee(F)
	10:30-12:30: Plenary1 Chairs:	11:00-12:30: Plenary3 Chairs:	11:00-12:30: Plenary5 Chairs:	11:00-12:30: Plenary7 Chairs:	11:00-12:00: Early Lunch
	10:30-11:00: PL-1 Chandra				
	11:00-11:30: PL-2 PIP	11:00-11:30: PL-9 Zhitong Chen(A)	11:00-11:30: PL-16 Masayuki Ono(B)	11:00-11:30: PL-23 Jack Niemiec (SA)	12:00-14:10: Topical 9
	11:30-12:00: PL-3 tbd	11:30-12:00: PL-10 Norimas Ozaki(L)	11:30-12:00: PL-17 Kyungtae Kim(L)	11:30-12:00: PL-24 Smart Mangles(L)	MF2-9(Ballroom1)
	12:00-12:30: PL-4 Nur AS Amin(AMY)	12:00-12:30: PL-11 Piyali Chatterjee(SA)	12:00-12:30: PL-18 Juergen Rapp(MF2)	12:00-12:30: PL-25 Vicius Duarte (B)	MF1-9(Ballroom2)
	12:30-13:30: Lunch	12:30-13:30: Lunch	12:30-13:30: Lunch	12:30-13:30: Lunch	B-9 (Ballroom3)
[1] 13:00-17:00 : Registration and reception at Pacific Ballroom Foyer (Level 6) and Pool area in Grand Swiss-Belhotel. Free drink and snack are available.	13:30-15:40: Topical 1 MF2-1(Ballroom1) MF1-1(Ballroom2) B-1 (Ballroom3) L-1 (Room1) SG-1(Room2) SA-1(Room3) A-1 (Room4) F-1 (Room5) CD-1 (Room6) 15:40-16:00: Coffee Break	13:30-15:40: Topical 3 MF2-3(Ballroom1) MF1-3(Ballroom2) B-3 (Ballroom3) L-3 (Room1) SG-3(Room2) SA-3(Room3) A-3 (Room4) F-3 (Room5) CD-3 (Room6) 15:40-16:00: Coffee Break	13:30-16:00: Topical 5 L-9 (Room1) SG-9(Room2) SA-9(Room3) A-9 (Room4) F-9 (Room5) CD-9 (Room6) 15:40-16:00: Coffee Break	13:30-16:00: Topical 7 MF2-7(Ballroom1) MF1-7(Ballroom2) B-7 (Ballroom3) L-7 (Room1) SG-7(Room2) SA-7(Room3) A-7 (Room4) F-7 (Room5) CD-7 (Room6) 15:40-16:00: Coffee Break	13:30-16:00: Topical 9 L-9 (Room1) SG-9(Room2) SA-9(Room3) A-9 (Room4) F-9 (Room5) CD-9 (Room6) 14:10-14:30: Coffee Break 14:30-15:30: Plenary10 Chairs: 14:30-15:00: PL-31(Poster & student prize) 15:00-15:30: PL-32(DPP2025, Closing)
18:00-20:00: MIP Reception for VIP	CD-1 (Room6) 18:30-19:30: EV-1 (Peninsula 2) : Mini-workshop for Women in Plasma Physics	CD-4 (Room6) 18:30-19:30: EV-2 (Ball room1+2) 7* General Assembly	CD-5 (Room6) 18:30-19:30: EV-3 (tbd)	CD-6 (Room6) 19:00-22:00: Conference Dinner	

One Oral Rule: Conference presenters can give **one oral** presentation (plenary, topical plenary, invited, oral). But oral presenters are encouraged give another poster. A poster presentation of same oral talk or different topics is welcomed.

[7] Registration Fee and Conference Dinner Fee

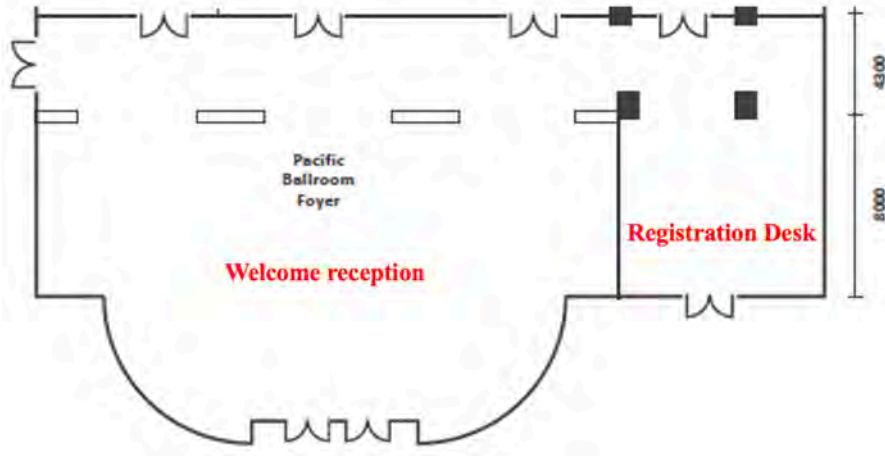
Registration fee should be paid on-line before the conference. Conference registration site is open at https://www.gakkai-web.net/p/aappsdpd_reg/new1.php . In case participant can't come, paid fee will be reimbursed with some cost. At the conference site, there will be minimum peoples in charge. We will not accept payment in cash and ask on-line payment in case you have not paid on-line before so that you have to bring your valid credit card.

Member fee is applied to AAPPS-DPP members and participants join DPP (no membership fee). Registration fee includes 1) Admission to all conference sessions and 2) Conference Materials. Welcome reception, coffee break, lunch are free of charge.

	Before Sept. 1, 2024	After Sept. 1, 2024
Member/Join DPP	80, 000 JPY(~500USD)	600USD
Member(Retired)/Join DPP	41, 600 JPY(~260USD)	300USD
Member(Student)/Join DPP	32, 000 JPY(~200USD)	250USD
Non-member	96, 000 JPY(~600USD)	700USD

7.1 On-site Registration

Conference bag including conference program, name tag, lunch ticket, dinner ticket, receipt, etc. will be given at the on-site registration desk. From Sunday (Nov.3) to Friday (Nov.8), on-site registration will be done at the Registration Desk beside Pacific Ballroom Foyer (Level 6). On Sunday (Nov.3), registration desk is open and welcome reception at Pacific Ballroom Foyer during 13:00-17:00. From Monday(Nov.4)-Friday(Nov.8) Registration desk is open from 8:00.



7.2 Conference Dinner

- 1) Date and Time: Thursday, November 7th, from 19:00 to 22:00
- 2) Location: Swiss Garden Hotel, Malacca <https://www.swissgarden.com/hotel-melaka/>
- 3) Conference dinner fee: 8,000 JPY for a participant and 16,000JPY for a participant with spouse who paid during registration. Please bring banquet ticket in your conference bag to join the banquet.





[8] VISA requirement

Malaysia Entry VISA: In many countries, visas are waived for short-term stays of 30 or 90 days when entering Malaysia. However, citizens of some countries are required a visa even for short-term stays. For visa information, please visit the following website.

(1) Visa Requirement Based on Country

<https://www.malaysia.gov.my/portal/content/133>

(2) Getting Visa Information

<https://www.malaysia.gov.my/portal/content/28905>

(3) Malaysia Digital Arrival Card (MDAC)

With some exceptions, foreigners entering Malaysia are required to submit their Malaysia Digital Arrival Card (MDAC) within three days of entry. During immigration inspection, the MDAC you submitted online will be checked, so please make its copy and bring it with you.

<https://imigresen-online.imi.gov.my/mdac/main>

For further details, please contact the respective Malaysian Embassy.

[9] How to Reach Grand Swiss-Belhotel, Malacca

How to get from Kuala Lumpur International Airport (KLIA) to the bus terminal for Malacca by express bus

0. The last bus from KLIA to Melaka leaves at 9.30 pm, so make sure you have enough time to transfer after arriving at the airport. The first bus to Malacca leaves at 7:00. Departure times, including the first and last bus, may change, so please check the reservation site below in advance.

<https://www.busonlineticket.com/>

1. After passing through immigration and customs, follow the signs to the bus terminal in the arrival lobby.

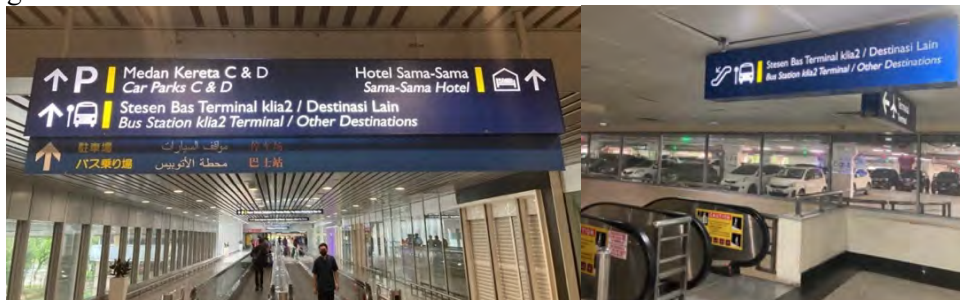


2. Going straight and you will see a sign that shows "Bus to City L2." Take the elevator/escalator down to the L2 floor.

3. Follow the instructions and get on the moving walkway, you will see a sign that shows "Bus Station."

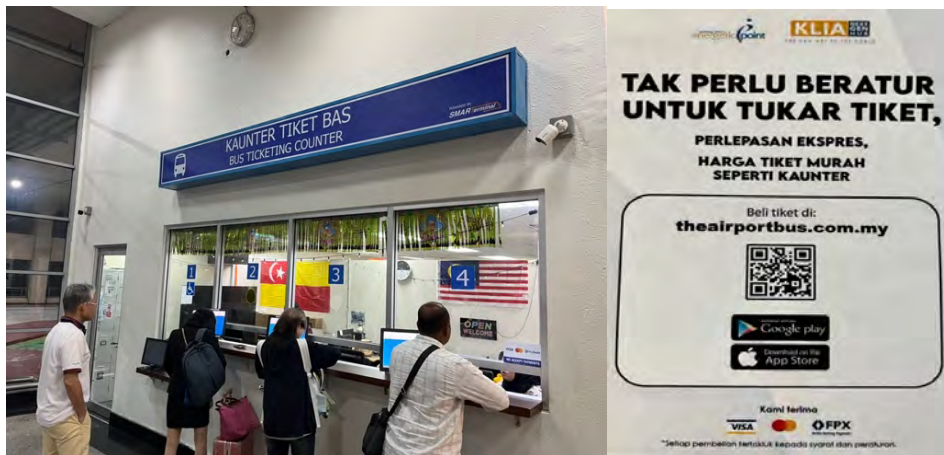


Follow that sign and take the escalator down to the lower floor.

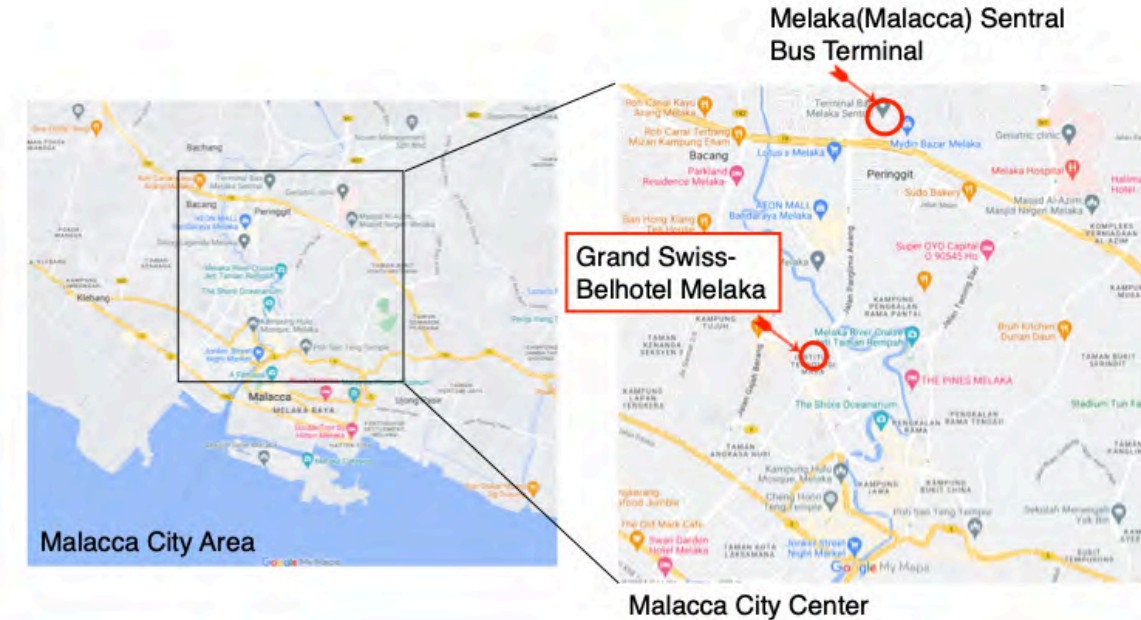




4. Then you will get to the bus terminal of KLIA. Purchase tickets at the Ticket Counter or make a reservation in advance via the URL below. Buses to Malacca run approximately once an hour and it takes about 2 hours to get there.



5. The express bus to Malacca(Melaka) arrives at the Melaka Sentral Bus Terminal, about 2 km north of the conference venue, “Grand Swiss-Belhotel Melaka”. From the Melaka Sentral Bus Terminal to the conference venue, it is within walking distance, but it is best to take a taxi.



[10] Financial support

DPP and MIP(LOC) support limited number of presenters using the resource. Both are closed.

[11] Abstract Submission and Post-deadline

Abstract submission by invited and plenary speakers and post-deadline abstract submission should be submitted before Aug 10 at <https://www.gakkai-web.net/gakkai/aappsdp/>. Submission site will be closed on August 10. We have “one-oral rule” so that plenary or invited or oral speakers can’t give another oral talk but can give additional poster presentation either same or different contents. All poster presentations can be candidates of poster prize.

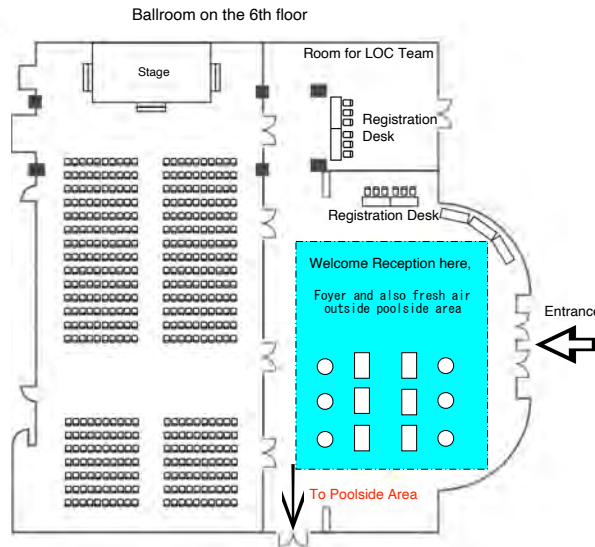
[12] Lunch: Lunch will be provided to conference participants for free (i.e. covered by registration fee) including vegetarian food.



[13] Registration and Welcome Reception:

Date and time: 13:00-17:00, November 3(Sunday), 2024

Venue: Pacific Ballroom Foyer (Level 6) and Pool area in Grand Swiss-Belhotel. Soft drink and snack are available.












[14] Hotels nearby Grand Swiss Belhotel Malacca

For reservation, please go directly to the hotel's online reservation page or agent site. Please note that rates are subject to change.

Hotel Names	Details
1. The Majestic Malacca, 4.5-5★	0.9 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 120
2. Courtyard by Marriot, 4.2★	1.1 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 80
3. The Pine Malacca, 4★	0.7 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 70
4. Grand Swiss Belhotel, 4★	Conference Venue, Estimated Room Rate per night: USD 65
5. Swiss Garden Hotel, 4★	0.7 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 55
6. The Blanc Boutique Hotel, 3.5★	1.0 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 70
7. Hotel Puri, 3.5★	1.2 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 50
8. Kings Green Hotel, 3★	0.3 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 35
9. Prima Hotel Hotel, 2★	1.0 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 30
10. Hotel Sentral Riverview, 2★	0.2 km to Grand Swiss Belhotel, Estimated Room Rate per night: USD 25




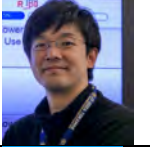



[15] Plenary Speakers

Photo	Name	Affiliation	Talk Title
	tbd	tbd	2024 S. Chandrasekhar Prize Lecture
	tbd	tbd	2024 Plasma Innovation Prize Lecture
	[Cross-Disciplinary] Peter Read	University of Oxford	Characterising inhomogeneous, anisotropic turbulent cascades and zonal jet formation from observations of Jupiter and Saturn
	[Cross-Disciplinary] Gyungjin Choi	Seoul National University	Theory of fast ion effect on turbulence-zonal flow interaction in magnetized plasma
	[Cross-Disciplinary] Fumiyoshi Kin	Kyoto University	Impact of avalanche type of transport on the profile formation in toroidal plasmas
	[Fundamental plasma] Sudeep Bhattacharjee	Indian Institute of Technology - Kanpur	Thermodynamics of magnetized plasma through experimental observations: superadiabaticity, entropy and energy content
	[Fundamental plasma] Tomo-Hiko Watanabe	Nagoya University	Theoretical and numerical studies on multi-scale turbulence interactions causing effective diffusion
	[Fundamental plasma] Shaojie Wang	University of Science and Technology of China	Long-time perturbative computation and self-organized evolution of Internal Transport Barrier in fusion plasmas
	[Basic plasma] Masayuki Ono	Princeton Plasma Physics Laboratory	Developing attractive radio frequency actuators for fusion reactors
	[Basic plasma] Vincius Duarte	Princeton Plasma Physics Laboratory	Relaxation of dark matter in galaxies and energetic particles in plasmas through a common resonance-broadened kinetic theory
	[Basic plasma] Jaehyun Lee	[Basic plasma] Korea Institute of Fusion Energy (KFE)	Enhanced Measurement of MHD and Turbulence Dynamics Through Electron Cyclotron Emission Imaging Diagnostics on KSTAR
	[Applied plasma] Nor Aishah Saidina	Amin Universiti Teknologi Malaysia	Dry reforming of methane using DBD plasma reactor coupled with Ni/La ₂ O ₃ -MgAl ₂ O ₄ .



	[Applied plasma] Zhitong Chen	Shenzhen Institute of Advanced Technology	Plasma Immunotherapy
	[Applied plasma] Quan-Zhi Zhang	Dalian University of Technology	Physical insights and process development of magnetized Capacitively Coupled Plasmas
	[Laser plasma] Stuart Mangles	Imperial College London	Probing extreme physics with plasma accelerators
	[Laser plasma] Kyungtaec Kim	GIST	Intense attosecond pulse generation from a plasma mirror
	[Laser plasma] Norimasa Ozaki	Osaka University	XFEL Study on Material's Dynamics under Extreme Conditions
	[Space/Geomag plasma] Lunjin Chen	University of Texas at Dallas	VLF transmitter wave propagation in the upper atmosphere
	[Space/Geomag plasma] Abhay Kumar Singh	Banaras Hindu University	Solar Eclipse effects on the low latitude ionosphere
	[Space/Geomag plasma] Sadiq Usman	University of Wah	Kelvin Helmholtz Instability in Non-Maxwellian magnetized dusty plasma
	[Solar/Astro plasma] Jacek Niemiec	Institute of Nuclear Physics Polish Academy of Sciences	Electron injection at galaxy cluster merger shocks
	[Solar/Astro plasma] Michael Wheatland	University of Sydney	Coronal magnetic field modelling
	[Solar/Astro plasma] Piyali Chatterjee	Indian Institute of Astrophysics	The nature and dynamics of the forest of solar plasma jets
	[Magnetic Fusion 1] Luis Delgado-Aparicio	Princeton Plasma Physics Laboratory	Energy-sensitive X-ray Cameras for Thermal and Non-Thermal Plasmas: A 12-Year Journey Towards Real-Time Solutions for Fusion



	[Magnetic Fusion 1] Sun Hee Kim	ITER Organization	The new ITER baseline research plan
	[Magnetic Fusion 1] Shizuo Inoue	QST	Achievements and Lessons Learned from JT-60SA's Integrated Commissioning towards DEMO
	[Magnetic Fusion 2] Guizhong Zuo	Institute of plasma physics, CAS	Development of boron coating technologies for high performance plasma on EAST with full metal wall
	[Magnetic Fusion 2] Chandra Prakash Dhard	Max-Planck Institut für Plasmaphysik, Greifswald	Plasma-wall interaction, exhaust and wall conditioning studies in the stellarator Wendelstein 7-X with actively cooled high heat flux divertor and experiments with tungsten PFCs
	[Magnetic Fusion 2] Juergen Rapp	Oak Ridge National Laboratory	Integrating Plasma-Material Interaction with Fusion Nuclear Science

[16] Invited Speakers

Cross Disciplinary:

- | | | |
|---------------------------|--|---|
| 1. Eun-jin Kim (TP) | Coventry University (SNU) | Novel statistical approach to fusion plasma turbulence |
| 2. Alsu Sladkomedova (TP) | Tokamak Energy | Intermittency of density fluctuations and zonal flow generation in MAST |
| 3. Yusuke Kosuga (TP) | RIAM, Kyushu University | Breathing laboratory plasmas |
| 4. Ting Long (TP) | Southwestern Institute of Physics | Non-diffusive turbulence spreading and its relation to intermittent convective fluctuation event |
| 5. Robin Varennes (TP) | Nanyang Technological University | Extracting data-driven surrogate models from turbulent simulations |
| 6. Hira Affan Siddiqui | University of Hail | Pattern Formation in advective flows |
| 7. Jan-Peter Baehner | IPP and MIT | Magnetic configuration effects on core turbulence in Wendelstein 7-X |
| 8. Yasmin Andrew | Imperial College London | Influence of magnetic geometry on the external transport barrier |
| 9. Youngwoo Cho | Nanyang Technological University | Effects of Modulated Heat Source on Non-local Transport |
| 10. Xavier Garbet | Nanyang Technological University | Impact of Shaping and Self-Regulation Processes in TEM Turbulence |
| 11. Ryosuke Nakashima | Kyushu University | A ray-theoretical approach to investigate continuous spectra of 2D incompressible MHD waves on a rotating sphere |
| 12. Naoki Kenmochi | NIFS | Fast non-diffusive response of heat and turbulence pulse propagation to thermal perturbations |
| 13. Masaru Yamamoto | Kyushu University | Kelvin-like and Rossby waves in Venus' super-rotation simulated by a GCM |
| 14. Kumiko Hori | NIFS | Jupiter's moist convection: impacts of internal torsional oscillations |
| 15. Michael Leconte | Korea Institute of Fusion Energy (KFE) | Scale-selection due to collisional zonal flow damping in the Cahn-Hilliard model for zonal staircase |
| 16. Chenguang Wan | Nanyang Technological University | A high-fidelity gyrokinetic surrogate model with machine learning |
| 17. Julian Mak | Hong Kong University of Science and Technology | On the choice of training data for machine learning of rotating stratified turbulence |
| 18. Qinghao Yan | Southwestern Institute of Physics | Self-organized States of AE and Zonal Modes |
| 19. Robert Teed | University of Glasgow | Regimes and branches of (geo)dynamo action |
| 20. Bin Ahn | KAIST | Investigation of collisionless charged particle motion near the X-point of the two-wire model |
| 21. Xiaoyi Yang | Harbin Institute of Technology | Study on the dispersion relation and the discrete spectrum of drift wave pattern |
| 22. Mingyun Cao | University of California, San Diego | A comprehensive model of the structure---drift wave---shear flow system |
| 23. Patrick Diamond | University of California, San Diego | Entrainment Dynamics of Drift-Zonal Flow Turbulence |
| 24. Jinbang Yuan | Southwestern Institute of Physics | Modification of Resonant Magnetic Perturbations on Edge Poloidal Shear Flow and Turbulence Structure on the HL-2A Tokamak |
| 25. Matthew Thomas | The Australian National University | Continuum Damping of Toroidal Alfvén Eigenmodes Due to Magnetic Island Chains |
| 26. Yong Xiao | Zhejiang University | Interaction between turbulence, zonal flow and magnetic shear |
| 27. Makoto Sasaki | Nihon University | Spatio-temporal dynamics of turbulence based on wave-kinetic formalisms |
| 28. Tatsuya Kobayashi | National Institute for Fusion Science | Phase-space tomography for charge exchange recombination spectroscopy |
| 29. Takuma Yamada | Kyushu University | Investigation and wave number analysis of meso-scale structures formed in plasma turbulence |



Fundamental Plasma Physics:

1. Rozina Chaudhary	GOVT. Gulberg college for women	The quantized magnetic Brillouin scattering instability of transverse electromagnetic waves
2. Abhay Ram	Plasma Science and Fusion Center, MIT	Quantum information science approach to electromagnetic wave propagation in plasma
3. Kexun Shen	Zhejiang University	Resonant decay of kinetic Alfvén waves and implication on spectral cascading
4. Sadayoshi Murakami	Kyoto University	Kinetic behavior of supra-thermal electrons by electron cyclotron heating in toroidal plasmas
5. Yoshiyuki Y. Yamaguchi	Kyoto University	Discontinuous codimension-two bifurcation in a Vlasov equation
6. Dominique Escande	Aix-Marseille Université	Description of magnetic field lines without arcana
7. Byung Jun Kang	National Institute for Fusion Science	Gyrokinetic analysis of high-order eigenstates and mode structure parity transitions in fast ion-driven instabilities within tokamak plasmas
8. Takeshi Matsumoto	Kyoto University	Lagrangian-history approach to turbulence: new insights
9. Tetsuji Kato	University of Tokyo	Energy exchanges in ITG and TEM turbulence
10. Haotian Chen	Southwestern Institute of Physics	On Validity of Gyrokinetic Theory
11. Ximan Li	Tsinghua University	Development of Plasma Burn-through Simulation Code and Application on SUNIST-2 and EAST
12. Bruno Coppi	MIT	Non-thermal fusion processes and relevance of non-separable ballooning modes
13. Wei Shen	Institute of Plasma Physics, CAS	Investigation of mode transition induced by fast particle transport in phase space on EAST
14. Yao Yao	Southwestern Institute of Physics	Kinetic theory of drift-mirror mode
15. Naoki Sato	National Institute for Fusion Science	A Collision Operator for Describing Dissipation in Noncanonical Phase Space
16. Ding Li	Institute of Physics, CAS	Kinetic equation and particle transport for strongly magnetized inhomogeneous plasmas
17. Mingkun Han	Southwestern Institute of Physics	Gyrokinetic simulation of coexisting micro-turbulences and transport in finite beta plasma
18. Ke Liu	University of Science and Technology of China	Effects of Magnetic Helicity on 3D Equilibria and Self-Organized States in KTX Reversed Field Pinch
19. Alessandro Biancalani	Léonard de Vinci Pôle Universitaire	The role of zonal structures in burning plasmas
20. David Pfefferle	University of Western Australia	Magnetic fields versus Hamiltonian systems, symmetries versus flux-surfaces: mathematical cornucopia
21. Yuichi Kawachi	Nagoya University	Characteristics of high-wavenumber turbulence in a partially magnetized plasma
22. Zheng Gong	Institute of Theoretical Physics, CAS	Retrieving transient relativistic plasma dynamics via spin-polarization signals
23. Keiichiro Takeda	The University of Tokyo	Relativistic Effects on Plasma Enstrophy: Unveiling the Role of Clebsch Variables
24. Arash Tavassoli	Australian National University	Relaxed magnetohydrodynamics with weak ideal-Ohm's-law constraint
25. Xinran Xu	Institute of Physics, CAS	Global gyrokinetic modeling of energetic ion effects on plasma instabilities
26. Shengyang Xiao	Huazhong University of Science and Technology	Heat transport induced by stochastic magnetic fields and electromagnetic turbulence during the fast thermal quench
27. Marco Veranda	CNR-ISTP / Consorzio RFX	Electron temperature barriers as Lagrangian Coherent Structures in RFX-mod and in 3D nonlinear MHD
28. Fulvia Pucci	Jet Propulsion Laboratory, Pasadena	Kinetic simulations of double current sheet: onset of fast reconnection in a collisionless framework
29. Kunyu Chen	Tsinghua University	Saturation of parametric instabilities with a non-resonant daughter wave
30. Zhengkang Ren	Huazhong University of Science and Technology	The locked mode disruption mechanism and its control by $n = 2$ RMP in J-TEXT
31. Jian Liu	Shandong University	Plasma Simulation Methods Based on Machine Learning
32. William Barham	University of Texas at Austin	A Hamiltonian structure-preserving discretization of Maxwell's equations in nonlinear media
33. Philip J. Morrison	University of Texas at Austin	A class of particle-based Hamiltonian reductions for the Vlasov equation—What a PIC code is really solving
34. Li-Chung Liu	National Taiwan University	Polarization Charge Effects in Microwave Heating

Basic Plasma Physics:

1. Saba Gondal	University of Engineering and Technology Lahore	Relaxation of magnetized multi-ion plasmas in an internal conductor
2. Cheng-Ran Du	Donghua University	Dissipative solitary waves in a disordered quasi-two-dimensional complex plasma
3. Eiichirou Kawamori	National Cheng Kung University	Thermodynamics of Plasma Turbulence
4. Lin I	National Central University	Screw dislocation filaments as singular excitations in unstable dusty plasma waves and liquid layers
5. Tsuyohito Ito	The University of Tokyo	Electric field measurements via coherent anti-Stokes Raman scattering in high-pressure environments
6. Mudtorlep Nisoa	Walailak University	Fabrication and characteristics of 5 kW high-density helicon plasma linear device
7. Chanho Moon	Kyushu University	Experimental research on the nonlinear dynamics of plasma turbulence in magnetize devices
8. Shaoyu Lu	Soochow University	Anelastic internal friction of dislocations in two-dimensional Yukawa solids
9. Zhuang Liu	Soochow University	Investigations of lithium pellet injections in the HL-2A and HL-3 tokamaks
10. Wei Kong	Civil Aviation University of China	Molecular dynamics simulation of interaction between energetic electron beam with charged dust particles in a 2D dusty plasma
11. Dong Huang	Soochow University	Supercritical transition between liquidlike to gaslike states for dusty plasmas
12. Muhammad Adnan	Kohat University of Science and Technology	Influence of Spin Polarization on Surface Wave Propagation in Quantum Plasma Half-Spaces
13. Hiroyuki Takahashi	Tohoku University	Basic research on divertor plasmas by laboratory experiments using a radio-frequency plasma
14. Hokuto Sekine	The University of Tokyo	Plasma Dynamics in RF Plasma Sources with Time-Varying Magnetic Nozzles
15. Mayuko Koga	University of Hyogo	Image reconstruction of lens-less microwave cameras using deep learning
16. Jie Chen	University of California Los Angeles	High-resolution radial interferometer-polarimeter for magnetic field and density fluctuation measurements in fusion plasmas
17. Meghraj Sengupta	Lawrence Livermore National Laboratory	Sheath transitions in the Two-Plasma mode of a Filament Discharge – Aid-Compete effects
18. Wonik Jeong	Seoul National University	Development of Penning ion gauge for in-situ measurement of neutral



19. Masahiro Okamura	Brookhaven National Laboratory	pressure in VEST Directional pulsed neutron flux generation for BNCT based on laser ion source technology
20. Søren Bang	Korsholm Technical University of Denmark	Collective Thomson Scattering fast ion measurements from JET to ITER and its beyond
21. Saba Khalid	Government College University Lahore	Field Aligned Potentials Associated with Alfvénic Double Layers at Non-Maxwellian Temperature Scales in Space Plasmas
22. Reetesh Kumar Gangwar	Indian Institute of Technology Tirupati	Integration of Machine Learning approaches in spectroscopic diagnostic of nonthermal atmospheric pressure plasmas
23. Guangjiu Lei	Southwestern Institute of Physics	Performance of RF-Driven Negative Ion Source for Neutral Beam Injection in SWIP
24. Takeru Furukawa	Kobe University	Dependence of electromagnetic acceleration on strength of rotating magnetic field in additional plasma acceleration under a magnetic nozzle
25. Chengxun Yuan	Harbin Institute of Technology	Research on the generation and evolution characteristics of a laboratory ball lightning
26. Evdokiya Kostadinova	Auburn University	Spectral Approach to Anomalous Diffusion in Plasma from Lab to Space
27. Hiroshi Tanabe	University of Tokyo	Two-dimensional dynamics of reconnection heating/transport process in ST40 and TS-6
28. Valerian Hall-Chen	Agency for Science, Technology and Research	Synthetic Doppler-backscattering diagnostic based on reduced models of plasma-wave interactions: recent progress and next steps
29. Tomonari Nakayama	QST	Turbulence modeling and novel co-simulation of global transport dynamics
30. Sushanta Barman	Indian Institute of Technology-Kanpur	Generation of high-intensity nano ion beams using plasma sheath nonlinearity and micro-glass capillary guiding
31. Swati Swagatika Mishra	Indian Institute of Technology-Kanpur	Investigating cryoplasmas through molecular dynamics simulations
32. Aohua Mao	Harbin Institute of Technology	Structure characteristics of three-dimensional magnetic reconnection in SPERF-AREX for simulated magnetopause events
33. Jingfeng Yao	Harbin Institute of Technology	Topological plasma metamaterials with tunable electromagnetic properties
34. Fernando Haas	Federal University of Rio Grande do Sul	Quantum Magnetohydrodynamics: a Review
35. Hongming Zhang	Institute of Plasma Physics, CAS	Study on spectra of high-ionization-stage tungsten ions in EAST Tokamak
36. Hideyuki Hotta	Nagoya University	Differential rotation in slowly rotating stars
37. Azarakhsh Jalalvand	Princeton University	An overview of the application of advanced machine learning for diagnostics in fusion plasma
38. Jyoti Jyoti	Govt. College for Women	Spin force analysis using the Brillouin function for spin half particles in magnetized non-relativistic quantum plasma
39. Tlekkabul Ramazanov	Al-Farabi Kazakh National University	Microscopic and Dynamical Properties of Partially Ionized Plasma
40. Hua-sheng Xie	ENN Science and Technology Development Co., Ltd.	Theoretical Studies of Non-thermal Fusion Gain
41. Waqas Masood	COMSATS University Islamabad	Novel features of chaos in dusty plasmas
42. Martin OMullane	University of Strathclyde	Atomic process error in fusion plasmas
43. J.W.I. Tumbokon	Agency for Science, Technology and Research	X-mode Beam Tracing in a 2D Slab for Doppler Backscattering
44. Debaprasad Sahu	Indian Institute of Technology Delhi	A Thrust vectoring system for an ECR plasma thruster

Applied Plasma Physics:

1. Deepak Prasad Subedi	Kathmandu University	Non-Thermal Plasma Treatment for Enhancing Seed Germination and Growth in Selected Vegetables
2. Hiroki Kondo	Kyushu University	Synthesis of functional carbon nanocomposites by gas-liquid interfacial plasma
3. Muhammad Nur	Diponegoro University	Applied Cold Plasma on Environment Treatment, Horticulture and Medicine
4. Kazunori Koga	Kyushu University	Nonthermal plasma as a novel seed treatment technology for imparting climate change adaptability to plants
5. Najeeb Rehman	COMSATS University Islamabad	Underwater discharge Plasma for Remediation of Simulated Wastewater
6. Suresh C. Sharma	Delhi Technological University	Modelling and TCAD Analysis of Plasma-Assisted Graphene Field Effect Transistor
7. Maksudbek Yusupov	Academy of Sciences of Uzbekistan	Understanding the mechanisms of cold plasma-induced degradation of antibiotics in hospital wastewater
8. Pankaj Attri	Kyushu University	Utilizing Nonthermal Plasma for CO ₂ Conversion
9. Jamoliddin Razzokov	National Research University TIAME	Exploring the Molecular-Level Mechanisms of Mitochondrial Cell Death: Insights from Computer Simulations
10. Subhankar Bhandari	Bhabha Atomic Research Centre	Development of Noble Plasma Sprayed Coating for Protection against Molten Uranium Corrosion
11. Haw Jiunn Woo	University of Malaya	Performance of a Pulsed Plasma Thruster at Low Discharge Energy
12. Nikola Skoro	University of Belgrade	Can atmospheric pressure plasma technology be an efficient reactive chemistry tool for water treatments?
13. Katsuyuki Takahashi	Iwate University	Characteristics of pulsed discharges over water surface and their environmental and agricultural applications
14. Su-Rong Sun	Beihang University	Chemistry reduction of air collisional-radiative model application to the aerodynamic heating numerical simulation
15. Dai Zhang	Donghua University	Low-temperature plasma syntheses and modifications of catalysts toward electrocatalytic water splitting for sustainable hydrogen production
16. Jin-Yue Geng	Institute of Mechanics, CAS	Research on Air-Breathing Electric Propulsion Technology for Very Low Earth Orbit (VLEO)
17. Xian Meng	Institute of Mechanics, CAS	A novel hypersonic rarefied gas wind tunnel and its applications
18. Marcela Bilek	University of Sydney	Environmentally-friendly plasma processing technologies provide new opportunities in biomedicine
19. Deepika Behmani	Indian Institute of Technology - Kanpur	Characterization of electric field fluctuations and turbulence under different flow modes in a cold micro-plasma jet
20. Danhua Mei	Nanjing Tech University	Plasma catalysis – a promising green approach for efficient utilization of greenhouse gases
21. Weizong Wang	Beihang University	Experimental and numerical investigation on the dynamic mechanism of



22.Satyananda Kar	Indian Institute of Technology Delhi	discharge instabilities in the wall-less Hall thruster Using Spectroscopy and Imaging Techniques to Investigate Bacterial Inactivation Mechanisms by Cold Atmospheric Pressure Plasma Jet
23.Rajneesh Kumar	Banaras Hindu University	Prospective of Plasma based Electronic Devices
24.Airah Osonio	Nagoya University	Plasma-Assisted Atomic Layer Etching of SiO ₂ via surface fluorination and Ar Bombardment
25.Kathrina Lois	Taaca University of the Philippines Diliman	Plasma-assisted Synthesis of Chitosan-Acrylic Acid Hydrogels
26.Hamid Latif	Forman Christian College, Lahore	Nano-hillocks formation using Laser Induced Plasma for Solar Cell Application
27.Haruka Suzuki	Nagoya University	Time evolution of positive ion composition in pulse-modulated Ar/C ₄ F ₈ /O ₂ capacitively coupled plasma
28.Magdaleno Jr Vasquez	University of the Philippines Diliman	Improving polyvinyl acetate adhesion strength on bamboo using plasma treatment
29.Punit Kumar	Lucknow University	Piezoelectric Semiconductor Plasma: Dynamics of Coupled Waves and Spiky Solitons
30.Miran Mozetic	Jozef Stefan Institute	Cold plasma within a stable supercavitation bubble - a breakthrough technology for efficient inactivation of viruses in water
31.Rajdeep Singh Rawat	Nanyang Technological University	Dense plasma focus device as a novel hot, dense, energetic, and transient plasma source for material synthesis and processing
32.SS KAUSIK	Institute for Plasma Research, Assam	Investigation of Nitrogen Fixation in Tea Factory Waste through Non-Thermal Plasma Technology
33.Kim Shyong	University Kebangsaan Malaysia	Agri-plasma applications in pesticide breakdown
34.Kenichi Inoue	Nagoya University	Surface Modification of Hexagonal Boron Nitride Particles Using Plasma in Liquid
35.Takayoshi Tsutsumi	Nagoya University	In-situ measurements of plasma-induced defects and radical adsorption in ALE
36.Kosuke Takenaka	Osaka University	Enhancement of bonding strength by non-equilibrium atmospheric pressure plasma irradiation
37.Lim Soowon	Nippon Bunri University	Recycling systems for spent photovoltaic panels by combined application of physical separation technologies
38.Naoto Kodama	Nagoya University	Numerical calculation of chemical species composition, thermodynamics and transport properties and critical electric field for high-temperature gases
39.Anuradha Bhasin	Bhagwan Parshuram Institute of Technology	Modelling & Simulation of Plasma Assisted Multiwalled CNT MOSFET

Laser Plasma Physics:

1.Mario Manuel(TP)	General Atomics	A Hydrodynamically Equivalent Burning Plasma in Direct-Drive Laser Fusion
2.Nozomi Tanaka (TP)	Osaka University	A Pathway to Tin Contamination Cleaning in Extreme Ultraviolet Lithography Source with Photoionized Plasma
3.Bin Qiao (TP)	Peking University	Laboratory investigations on the origin and interactions with astropasmas of magnetic fields in the Universe by using high-power lasers
4.Jian-Xing Li	Xi'an Jiaotong University	Strong laser driven high-energy particle beams with large angular momenta
5.Fuyuan Wu	Shanghai Jiao Tong University	Mitigate the Rayleigh-Taylor instability by tuning the electron heating flux in DCI scheme
6.Yang Wan	Zhengzhou University	Experimental measurements of the plasma wakefield driven by a laser-accelerated electron bunch
7.Sonali Khanna	TIFR Hyderabad	Towards realizing an ultrashort relativistic electron source from a tabletop industrial laser
8.Dong Wu	Shanghai Jiao Tong University	Research on Large scale kinetic physics in the double-cone-ignition laser fusion
9.Yanping Chen	Shanghai Jiao Tong University	Millijoule Terahertz Radiation from Laser Wakefields in Non-Uniform Plasmas
10.Min Chen	Shanghai Jiao Tong University	Recent progresses of laser plasma based electron acceleration and radiation at Shanghai Jiao Tong university
11. Wenchao Yan	Shanghai Jiao Tong University	A Platform for All-optical Thomson/ Compton Scattering with Versatile Parameters at SJTU
12.Yutong Li	Institute of Physics, CAS	Intense laser-driven Terahertz generation and applications
13.Weimin Wang	Renmin University of China	Electromagnetically induced transparency in relativistic plasma
14.Baifei Shen	Shanghai Normal University	Enhancement of proton acceleration by optimizing laser pulse
15.Zhe Zhang	Institute of Physics, CAS	Recent results of the double cone ignition campaigns
16.Boyuan Li	Shanghai Jiao Tong University	Single attosecond pulse and Single-order harmonic generation by relativistic laser-solid interaction
17.Wen Luo	University of South China	Laser production of medical isotopes ⁶² , ⁶⁴ Cu and ⁶⁸ Ga and nuclear isomer ^{93m} Mo using XingGuangIII
18.Chang Hee Nam	Gwangju Institute of Science and Technology	Enhanced proton acceleration with energy over 100 MeV
19.Yuqiu Gu	Laser Fusion Research Center, CAEP	High Resolution Radiography Researches Based on Picosecond Laser
20.Snezhana Abarzhi	The University of Western Australia	Instabilities in fusion plasmas: Interface dynamics and flow fields structure
21.Zheng-Ming Sheng	Shanghai Jiao Tong University	Theoretical studies on stimulated Raman scattering in inhomogeneous plasmas and their mitigation with broadband lasers
22.Xiaofei Shen	Peking University	Particle acceleration and radiation from laser-irradiated microtapes
23.Taiwu Huang	Shenzhen Technology University	Control of high-current relativistic electron beam and its applications
24.Chen Hon Nee	Multimedia University	Nanodiamond synthesis by fs laser filamentation in ethanol
25.Jian Fuh Ong	IFIN-HH	The interaction of multi-petawatt femtoseconds laser with nanowire target.
26.Vanessa Phung	IFIN-HH	Advancements in exploring in laser-driven acceleration for fundamental experiments and applications
27.James HERNANDEZ	Osaka University	Utilization of soft x-ray emissions from nanosecond pulsed laser produced plasma for decontamination of reflective optics in extreme ultraviolet light lithography systems
28.Inhyuk NAM	Pohang Accelerator Laboratory	Longitudinal controllable capillary discharge plasma for laser wakefield acceleration
29.Ryutaro Matsui	Kyoto University	High-purity proton acceleration to sub-GeV regime utilizing hydrogen cluster and rod/string configuration
30.Kentaro Sakai	NIFS	Local measurements of electron-scale magnetic reconnection in laser-produced plasmas
31.Yasunobu Arikawa	Osaka University	Advanced neutron sciences on high power laser driven neutron sources



32. Vikrant Saxena
33. Feng Wang
34. Michiaki Mori
35. Bhuvanesh Ramakrishna
36. SeongShan Yap

Indian Institute of Technology Delhi
Laser Fusion Research center, CAEP

QST

IIT-Hyderabad
Xiamen University Malaysia

Effect of an external magnetic field on the TNSA accelerated ions
Progress in Shock Wave Diagnosis Technology Based on Velocity Interferometers for Laser Inertial Confinement Fusion
Pointing stable low-divergence 100keV-class electron beam generation from micro-capillary target under sub-relativistic laser intensity
Investigation of ion beam instabilities in intense laser plasma and applications
Effects of background gas in laser ablation of Al-doped ZnO

Space/Geomagnetism Plasma Physics:

1. Gurudas Ganguli (TP)
2. Xueyi Wang (TP)
3. Rodrigo A. Miranda (TP)
4. Ajeet K. Maurya (TP)
5. Xin Wang
6. Jing Jiao
7. Qiang Hu
8. Sadia Zaheer
9. Huijie Liu
10. Erico Luiz
11. M. N. S. Qureshi
12. N. S. Saini
13. Laila Zafar Kahlon
14. Mingyu Wu
15. Jin Guo
16. R. Rubia
17. Ruilong Guo
18. Vipin K Yadav
19. Wai-Leong Teh
20. Saba Javed
21. Ze-Fan Yin
22. Tajammal Khokhar
23. Nurul Shazana Abdul Hamid
24. Narayan Chapagain
25. Kyung Sun Park
26. Nazish Rubab
27. Peera Pongkitiwanchakul
28. Shuo Yao
29. Shimou Wang
30. Neha Pathak

Naval Research Laboratory
Auburn University
University of Brasilia
Babasaheb Bhimrao Ambedkar University

Beihang University
National Space Science Center, CAS

University of Alabama in Huntsville
Forman Christian College

National Space Science Center, CAS
Rempel Aeronautics Institute of Technology
GC University

Guru Nanak Dev University
Forman Christian College

Harbin Institute of Technology
University of Science and Technology of China

Vikram Sarabhai Space Center
Shandong University
Indian Space Research Organization

Universiti Kebangsaan
Forman Christian College
Peking University

National University of Sciences and Technology

Universiti Kebangsaan

Tribhuvan University
Chungbuk National University
University of Central Punjab
Kasetsart University
China University of Geosciences
University of Science and Technology of China

University of Colorado Boulder

Detection of Small Orbital Debris by Signatures of Charged Debris-Plasma Interaction
Simulation of Whistler-Mode Chorus Wave in the Earth's Inner Magnetosphere
Coherent structures and complexity-entropy in space plasma turbulence
Effect of two similar intensity geomagnetic storms on the low latitude D-region ionospheric plasma inferred using very low-frequency navigational signals
Temperature intermittent structures in the solar wind
Lidar observations of ionospheric E-F metallic ions at three stations in 120° longitude in China
Magnetic Flux Ropes in Space Plasmas
Data observation via MMS of Collisional Whistler instability in a Magnetic Hole (Kappa distributed) Plasma
High-speed electron flows in the Earth magnetotail
Origin of Multifractality in Solar Wind Turbulence
Growth of EMIC waves using the observed non-Maxwellian ion velocity distribution from space plasmas
Breather Structures and Peregrine Solitons in a Polarized Space Dusty Plasma
A modified Korteweg-de Vries equation for Rossby-Khantadze waves in a sheared zonal flow of the ionospheric E layer
Magnetic Holes in the Martian Space Environment
Three-dimensional Global Hybrid Simulations of Mercury's Disappearing Dayside Magnetosphere
Generation of electrostatic waves over the Lunar magnetic anomaly
Three-dimensional magnetic reconnection in planetary magnetospheres
Streaming Beam-Plasma Instability Generation around moon in Variable Lunar Plasma Conditions
Effects of pressure anisotropy on the geometry of magnetic flux rope
A study of the process of spacecraft charging in RF discharges at GEO altitude
Inner Magnetospheric Magnetic Dips: Pitch-Angle Filter of Energetic Particles and Propagating Hotspot for EMIC Wave Excitation
Energy Transport of parallel propagating electromagnetic waves in bi-Kappa distributed space plasmas
Analysis of Geomagnetic Storm Characteristics During Solar Cycle 24 and Ionospheric Disturbance Dynamo Response in the Equatorial Region.
Ionospheric Plasma Anomaly Depicted Through GPS TEC Data Over Nepal
Magnetospheric dynamics under variable solar wind conditions
Role of energetic electrons and ions on Space objects potential in space plasma scenarios
Crossover feature in magnetic reconnection
Source Compositions and Geoeffectiveness of Interplanetary Coronal Mass Ejections
Direct observation of magnetic reconnection resulting from interaction between magnetic flux rope and magnetic hole in the Earth's magnetosheath
Role of Magnetic Reconnection in Space Sciences

Solar/Astro Plasma Physics:

1. Zhenghua Huang
2. Yuandeng Shen
3. Mushtaq Ahmed
4. Bofeng Tang
5. Ding Yuan
6. Baolin Tan
7. Daye Lim
8. Ramesh Chandra
9. Jie Zhao
10. Hao Li
11. Marcel Goossens
12. Muddasir Ali Shah
13. Gohar Abbas
14. Ghulam Ume
15. Hannah Schunker
16. Amit Seta
17. Nitin Yadav

Shandong University
Yunnan Observatories, CAS
International Islamic University Islamabad

National Space Science Center, CAS
Harbin Institute of Technology

National Astronomical Observatories, CAS
Royal Observatory Belgium
University of Kumaun
Purple mountain Observatory

National Space Science Center, CAS

CmPA, KU Leuven
University of Central Punjab

Government College University Lahore
University of Turku
University of Newcastle
Australian National University
Indian Institute for Science Education and Research

Diagnoses on magnetic loops in the solar transition region
Fine Magnetic Structure, Formation and Eruption Mechanisms of Solar Filaments
Magnetorotational Instability in Accretion Disk Plasmas: Quantum Mechanical Approach
Suprathermal Electron Transport and Electron Beam Formation in the Solar Corona
Two-fluid magnetohydrodynamic effects in the high-temperature atmosphere of the sun and their new perspective
Non-thermal radio emission from plasmas in the solar transition region
The Role of High-Frequency Transverse Oscillations in Coronal Heating
Extreme-Ultraviolet Waves and Type II Radio Bursts during Solar Flares
Magnetic and Kinematic Features of Fine structures observed by Goode Solar Telescope (US)
Mapping the chromospheric magnetic fields with the spectropolarimetric observations of Mg II h and k lines
Mixed properties of MHD waves and Alfvén waves with pressure variations
Role of suprathermal particles on the propagation of ordinary waves in the solar wind and solar flares
On the flow driven Alfvénic instability in anisotropic permeating plasmas
Electron and proton peak intensities in solar energetic particle events
The Role of Convection for Active Region Emergence on the Sun
Magnetic fields in the multiphase medium of galaxies
ALFVENIC NATURE OF VORTEX FLOWS IN DIFFERENT SOLAR MAGNETIC FIELD CONFIGURATIONS



18. Yuchuan Wu	National Astronomical Observatories, CAS	Persistent Upflows and Downflows at Active Region boundaries Observed by SUTRI and AIA
19. Chuan Li	Nanjing University	The Chinese Ha Solar Explorer and its early results
20. Tomohisa Kawashima	University of Tokyo	Multi-Wavelength Radiation Properties of Black Hole Accretion Flows and Relativistic Jets
21. Yuhao Zhou	CmPA, KU Leuven	Modeling Solar Prominences with Frozen-Field Hydrodynamic (fFHD) Equations
22. Yuki Kudoh	Tohoku University	Global Simulations of Radiation-driven Sub-parsec Scale Multiphase Outflows in Active Galactic Nuclei
23. Romain Meyrand	University of Otago	Reflection driven turbulence in the super-Alfvénic solar wind
24. Hayakawa Hisashi	Nagoya University	Archival Investigations for the Past Sunspot Observations in the Last 4 Centuries
25. Kensuke Kakiuchi	The University of Tokyo	MHD Simulation in Galactic Center Region with Radiative Cooling and Heating
26. Bidya Karak	IIT-BHU	Dynamo modelling for cycle variability and occurrence of grand minima in Sun-like stars: Rotation rate dependence
27. Mami Machida	National Astronomical Observatory	MHD simulation of the SS433 jet: from the central region to the terminal region
28. Fatima Binte	Munir Government College University Lahore	ICME-driven shocks in the exosphere of Mars: An Analytical approach
29. Ram Prasad Prajapati	Jawaharlal Nehru University	Galactic cosmic rays driven MHD waves and gravitational instability in dusty molecular clouds
30. Haruka Washinoue	Osaka University	Understanding the coronal heating in various stellar environments: the effect of metallicity
31. Ryunosuke Maeda	Tohoku University	The Impact of Stellar Feedback on Formation of Young Massive Clusters via Fast HI Gas Collisions
32. Shota Yokoyama	The University of Tokyo	Heating of the intergalactic medium by cosmic rays in the early universe
33. Young Dae Yoon	Asia Pacific Center for Theoretical Physics	Seed magnetogenesis through the canonical battery effect
34. Masanori Iwamoto	Kyoto University	Linearly polarized coherent emission from relativistic shocks
35. Vaibhav Pant	Aryabhata Research Institute of Observational Sciences	Decayless oscillations are a common phenomenon in the solar atmosphere
36. Shuta Tanaka	Aoyama Gakuin University	A Self-regulating Stochastic Acceleration Model of Pulsar Wind Nebulae

Magnetic Fusion Plasma Physics-1(Core):

1. Giovanni Di Giannatale	SPC-EPFL	Confinement improvement of negative triangularity L-mode tokamak configurations and its relevance for a fusion reactor from first-principles global gyrokinetic simulations
2. Tuomas Tala	VTT Technical Research Centre of Finland	Isotope and Species Scaling in JET Deuterium, Tritium and Helium Plasmas
3. Guillaume Brochard	ITER organization	Saturation of fishbone instability through zonal flows driven by energetic particle transport in tokamak plasmas
4. Zhixin Lu	Max Planck Institute of Plasma Physics	Piecewise Field-Aligned Finite Element Method for Multi-Mode Nonlinear Particle Simulations
5. Weikang Tang	Max Planck Institute for Plasma Physics	Progress on shattered pellet injection modelling in AUG using JOREK
6. Boonyarit Chatthong	Prince of Songkla University	Scenario development of Thailand Tokamak 1 using integrated predictive modelling code
7. George Sips	General Atomics	Tungsten and Tungsten-equivalent radiative studies in the DIII-D ITER Baseline Scenario
8. Wilkie Choi	General Atomics	Simulation and experiment of EC steering of LH deposition on EAST
9. Wei Zhang	Institute of Plasma Physics, CAS	Recent progress in improvement of ICRF coupling and power absorption with new antennas on EAST
10. Tong Liu	Dalian University of Technology	Electron density window on the suppression of spontaneous neoclassical tearing mode with high fraction of bootstrap current
11. Yang Li	Southwestern Institute of Physics	Theoretical research on neoclassical effects on low frequency drift Alfvén waves in Tokamak plasmas
12. Shabbir Ahmad Khan	National Centre for Physics,	Kinetic full wave analysis of OXB mode conversion in electron cyclotron heating and current drive in tokamak plasmas
13. Mads Larsen	Denmark Technical University	Orbit tomography in constants-of-motion phase-space and the inclusion of prior information
14. Nicola Vianello	Consorzio RFX and CNR-ISTP,	The EUROfusion Tokamak Exploitation Program in support of ITER and DEMO
15. Fulvio Auriemma	Consorzio RFX – ISTP-CNR	Modelling of the current density profiles in the high beta JET plasmas guided by MHD markers and kinetic data
16. Matteo Baruzzo	ENEA, Consorzio RFX	Plasma control experiments in JET Deuterium-Tritium plasmas
17. Gianluca Pucella	ENEA	High-beta NTM in JET experiments in preparation of JT-60SA operations
18. Alessandro Marinoni	University of California-San Diego	Extrapolating performance of negative triangularity plasmas in reactors via confinement scaling
19. Rakesh Tanna	Institute for Plasma Research	Recent Advances in ADITYA-U Tokamak Operation and Experiments
20. Nicola Bertelli	Princeton Plasma Physics Laboratory	Recent progress in the RF modeling activities
21. Pengjun Sun	Institute of Plasma Physics, CAS	Experimental and Gyrokinetic Studies of ion-scale Turbulence and Transport in NBI Heated L-mode Plasmas on EAST
22. Caoxiang Zhu	University of Science and Technology of China	Simplifying stellarator coils with plasma sensitivity information
23. Shaokang Xu	Southwestern Institute of Physics	Reversal of the parallel drift frequency in anomalous transport of impurity ions
24. Alessandro Balestri	EPFL-SPC	Physical insights from the aspect ratio dependence of turbulence in negative triangularity plasmas
25. Cary Forest	University of Wisconsin	First Results from the Wisconsin HTS Axisymmetric Mirror (WHAM)
26. Lei Qi	Korea Institute of Fusion Energy	Reversal of the isotopic dependence of energy confinement from current to future tokamaks
27. Shiyong Zeng	Huazhong University of Science and Technology	Impurity radiation seeded neoclassical tearing mode growth
28. Juan Ruiz Ruiz	University of Oxford	Measurement of three wave coupling between zonal and Alfvénic modes in the JET tokamak
29. Darren Garnier	OpenStar Technologies	Exploring the levitated dipole as a fusion device
30. Min Uk Lee	Myongji University	Generalized fluid model for collisions between arbitrary ion species
31. Z.K.I. Tan	Agency for Science, Technology and Research	Wavenumber spectra of turbulent density fluctuations in a Bouncing Ball DIII-D plasma
32. Zichao Lin	Institute of Plasma Physics, CAS	Development of High-performance X-ray Crystal Spectrometer on EAST towards application on fusion reactor



Magnetic Fusion Plasma Physics-2(Edge):

1.Alexander Thyrsøe	Technical University of Denmark	HESEL predictions of density shoulder formation in JET-ILW H-, D-, T-isotope L-mode plasmas
2.Fulvio Militello	UKAEA	Overview of boundary plasma asymmetries in conventional and spherical tokamaks
3.Baptiste Frei	Max-Planck-Institut für Plasmaphysik	Edge and Scrape-off layer turbulence simulations with the accelerated full-F gyrokinetic code GENE-X
4.Z.Y. Yang	Southwestern institute of physics	Implementing deep learning-based disruption prediction in a shifting data environment of new tokamak: HL-3
5.Y. Zhang	Southwestern Institute of Physics	On how triangularity regulate edge MHD instability and pedestal structures
6.Shaocheng Liu	Donghua University	Direct measurement of SOL helical current filament induced by lower hybrid wave and its application on edge localized mode control
7.Ning Yan	Institute of Plasma Physics, CAS	Study on the role of separatrix density on regulating pedestal performance and SOL transport
8.Mate Lampert	Princeton Plasma Physics Laboratory	Destabilization of Micro-Tearing Modes on MAST-U
9.Morten Lennholm	UKAEA	Status and evolution of the STEP nuclear fusion power plant programme
10.Dogyun Hwangbo	University of Tsukuba	Global observation and potential effects of arc traces in fusion devices
11.Mykola Ialovega	University of Wisconsin-Madison	Cold spray deposition of refractory materials for fusion plasma-facing components
12.Christoph Kawan	Forschungszentrum Jülich GmbH	Global impurity migration in Wendelstein 7-X: 13C balance and footprint after the 13CH4 injection experiment
13.Yu Luo	Forschungszentrum Jülich GmbH	Fast prediction of edge plasma parameters in W7-X based on EMC3-EIRENE modeling database using machine learning
14.Ran Chen	Institute of Plasma Physics, CAS	A Novel Turbulence Transition Induced by Lower Hybrid Wave in an ELMy H-mode Pedestal at EAST
15.OOKJOO RA	ITER Organization	Enhanced Insights and Improvements in Power Exhaust Management through Numerical Simulations
16.Xue Bai	ITER Organization	Optimization of 3-D fields for ELM control and error fields correction in ITER
17.Michael Faitsch	Max-Planck Institute for Plasma Physics	The quasi-continuous exhaust regime in ASDEX Upgrade and JET: An ELM-free integrated reactor scenario
18.Rajesh Maingi	Princeton Plasma Physics Laboratory	The NSTX-U program on integration of attractive core operation with high heat flux exhaust
19.Donggui Wu	Institute of Plasma Physics, CAS	Compatibility of divertor detachment and ELM suppression in DIII-D high- β_p plasmas with ITER-similar shape
20.Guoliang Xu	Institute of Plasma Physics, CAS	Impact of the $E \times B$ drifts on divertor W leakage of EAST
21.Dirk Reiser	FZJ	Erosion models and techniques to estimate model parameters for fusion applications
22.Xiaoju Liu	Institute of Plasma Physics, CAS	Simulation of the divertor detachment and tungsten impurity behaviors in He plasma on EAST with tungsten divertor
23.Jerome Bucalossi	CEA, IRFM	Overview of WEST results on integrated long pulse scenarios with ITER-grade W-divertor
24.Binfu Gao	Institute of Plasma Physics, CAS	The high heat flux in the far SOL during ICRF heating on EAST
25.Tyler Abrams	General Atomics	Evaluating advanced tungsten alloys and high-temperature ceramics under high heat flux in the DIII-D divertor
26.Ludovica De Gianni	CEA, IRFM	Core and edge modeling of JT-60SA H-mode highly radiative scenarios
27.Dmitriy Borodin	FZJ	Collisional-radiative models (CRM) in transport modelling of edge; divertor fusion plasmas
28.Artur Perek	Ecole Polytechnique Federale de Lausanne	A systematic search for the optimal baffle closure at the TCv tokamak
29.Kazuaki Hanada	Kyushu University	Recent experimental results on plasma current start-up and long pulse operation on QUEST
30.Jiaxing Liu	Huazhong University of Science and Technology	Validation of the plasma-wall self-organization model for density limit in ECRH-assisted start-up of Ohmic discharges on J-TEXT
31.Nirmal Bisai	Institute for Plasma Research	Ion temperature gradient effects on plasma blob formation
32.Joshua Doak	Australian National University	Anisotropic Peeling-Ballooning Mode Scans of JET Equilibria
33.Gunyoung Park	Korea Institute of Fusion Energy	Overview of recent progress in 3D field physics in KSTAR
34.Weì Xu	Hefei Comprehensive National Science Center	The mass threshold for real-time wall conditioning through boron powder injection in EAST with full metal wall
35.Marcos XN Gonzalez	University of Wisconsin-Madison	Modeling of 3D Material Erosion and Impurity Transport During Application of Resonant Magnetic Perturbations with the ERO2.0 Code
36.Jingsheng Yuan	Institute of Plasma Physics, CAS	Progress of mitigating plasma disruption by the shattered pellet injection in EAST

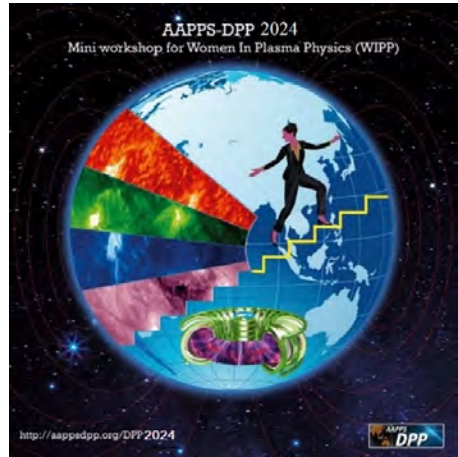


[17] Satellite Workshop/Symposium

- 2) If you want to organize Satellite WS, please contact M. Kikuchi(aapps.dpp.ceo@gmail.com).
- 3) Presentation at satellite WS do not apply "one-oral" rule.

Mini-Workshop for Women in Plasma Physics (WIPP)

A Mini Workshop for Women in Plasma Physics (WIPP) will be held as part of the Association of Asia Pacific Physical Societies - Division of Plasma Physics (AAPPS-DPP) international conference at Grand Swiss-Bell Hotel Malacca, Malaysia on Monday 4th of November 2024. Women are excellent contributors to diverse fields of Plasma Physics, but they often face different challenges. The Mini-Workshop WIPP-AAPPS-DPP provides a platform for women scientists to discuss and share their journey. The workshop aims to understand the issues that women scientists and researchers face while pursuing their careers. It will discuss women's obstacles and problems, how they are overcome, and what can be done to motivate their participation in research, conferences, and workshops. The workshop is open to everyone, but we encourage women participants of AAPPS-DPP to contribute as presenters/speakers or discussion participants actively. It will be a great networking event. Please submit your interest here:



https://docs.google.com/forms/d/1YkxPGkvjv8Pj_9gAnxE8n67u6KsH5AV5t560mr5DHlo/viewform?edit_requested=true

Date and Time: Monday 4th November 2024, Time 17:00-19:00

WIPP committee chair: Dr Anisa Qamar

Contact: wippworkshop2024@gmail.com

Mini Workshop in Honour of Robert Dewar : Plasma Equilibria, stability and nonlinear dynamics.

Organizer: Matthew Hole (ANU) and Zhisong Qu (NTU)

Date and time: 13:30-15:40, 7th Nov., 2024

Number of participants: <50

Description: Prof. Robert (Bob) Leith Dewar, FAA, FAPS, FAIP (1944 -April 5 2024) was a giant in the field of theoretical plasma physics, with important contributions in Magnetohydrodynamics (MHD) and in dynamical systems. These include MHD equilibrium and stability, MHD ballooning modes, Taylor relaxation and Hamiltonian maps. Bob worked closely with computer simulation and with experimentalists and has made important contributions to toroidal magnetic fusion research and to astrophysics. Over the last decade he had been instrumental in the development of a multiple region relaxed MHD model to describe general stellarator fields, and he was presently working on a generalisation of such models to systems that preserve magnetic helicity with a weak ideal Ohm's law constraint. Perhaps most importantly, he has left a legacy in both research and teaching, mentoring numerous students and early-career scholars, many of whom now hold prominent positions in the field. This mini workshop will celebrate Bob's scientific accomplishments and legacy. Oral contributions are requested that draw on or are inspired by Bob's research.

[18] Publication

AAPPS-DPP encourage publication of plenary and invited talks to our official journal Reviews of Modern Plasma Physics (RMPP) <https://www.springer.com/journal/41614> . Article types are general "Review", "Special Topics" focused on your/group works, "Tutorial" for introduction, "History", "Chandrasekhar Lecture", "Plasma Innovation Lecture". Contact RMPP chair (M. Kikuchi) for any question. RMPP is a hybrid journal with subscription access and open access options. No Publishing fee is required for subscription option while open access option requires publication charge. According to Exaly, RMPP is high impact factor (=4.6) journal as of 2022.



(<https://exaly.com/journal/40760/reviews-of-modern-plasma-physics/?from=1970&to=2021>). RMPP is now accepted in the Web of Science and Scopus index collections. RMPP's CiteScore2023 is 5.9.

[19] AAPPS-DPP Prizes

19.1 2024 Subrahmanyan Chandrasekhar Prize of Plasma Physics

Selection of 2024 Chandrasekhar Prize of Plasma Physics is under way and the winner will give plenary talk in this conference.

https://www.aappsdp.org/DPP2024/html/materials/call_for_S.Chandrasekhar_prize_nomination2024.pdf

19.2 2024 Plasma Innovation Prize

Selection of 2024 Plasma Innovation Prize is under way and the winner will give plenary talk in this conference.

https://www.aappsdp.org/DPP2024/html/materials/call_for_AAPPS-DPP_InnovationPrize2024.pdf

19.3 AAPPS-DPP Young Researcher (U40) Award 2024

Selection of 2024 U40 award is under way and the winner will give a talk at this conference. Selection committee chair is Prof. Tuong Hoang.

https://www.aappsdp.org/DPP2024/html/materials/Call_for_AAPPS-DPP_Young_Res_Award2024.pdf

19.4 AAPPS-DPP U30 Doctral Scientist / Student Award 2024

Selection of 2024 U40 award is under way and the winner will give a talk at this conference. Selection committee chair is Prof. Kunioki Mima.

https://www.aappsdp.org/DPP2024/html/materials/Call_for_AAPPS-DPP_U30_Award2024.pdf

19.5 AAPPS-DPP Poster Prize 2024

DPP is recognizing significant poster presentation at the annual conference as AAPPS-DPP Poster Prize since 2018 for both students and young/senior researchers. Selection committee will select number of significant posters. Winner will receive a certificate and a book gift (only limited number is available (10 books)) sponsored by Springer journals (RMPP and AAPPS Bulletin). Elsevier journal (Fundamental Plasma Physics) will sponsor best student poster award for this year.

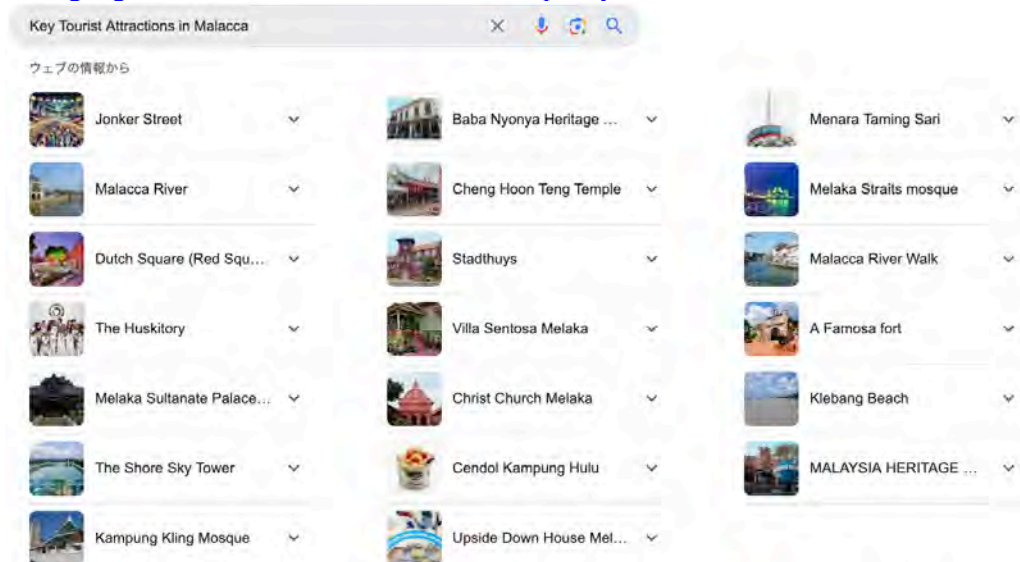
[20] Conference Tour

There is no official conference tour. Enjoy your stay in Malacca.

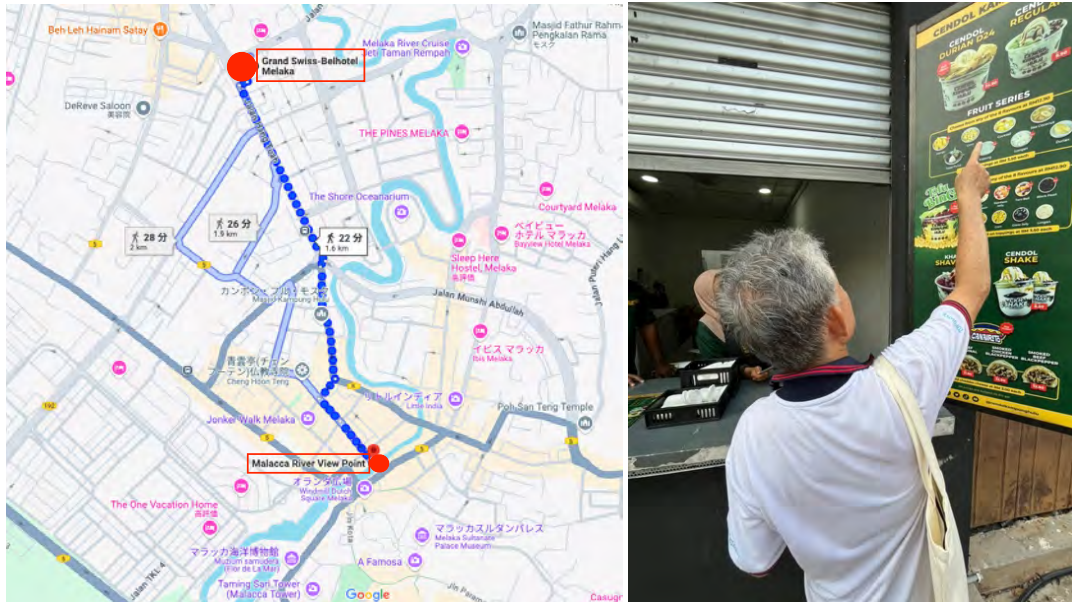
[21] Sightseeing place

If you search “Key Tourist Attractions in Malacca” at Google, you can find following videos.

<https://www.google.com/search?client=firefox-b-d&q=Key+Tourist+Attractions+in+Malacca>



Nightlife along the Melaka River: After the conference program, why not cool off by the Melaka River with a glass of beer or wine? The Melaka River viewpoint is approximately a 25-minute walk from the conference hotel as shown the map below. The walk along the Melaka River to the viewpoint takes longer but is enjoyable.



You can also enjoy a Melaka River cruise. Stylish hotels and restaurants along the Melaka River





[22] Committees

International Organizing committee

IOC chair: Abhijit Sen (IN), IOC Co-chairs: Mitsuru Kikuchi (JP), Rajdeep S. Rawat (SG), Wonho Choe (KR), Yutong Li (CN),

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