



# IPAC'25 Scientific Program

Yoichi Sato (KEK/J-PARC), IPAC '25 SPC Chair

IPAC'25 OC2  
2025-Jun-04, Taipei

# IPAC'25 SPC composition

Proposals from:  
 Yoichi Sato, Ming-Chyuan Lin (Asia),  
 Peter McIntosh, Rogelio Tomas (Europe),  
 Fulvia Pilat, Wolfram Fischer (Americas)



MC	Description	Coordinators (Asia)	Deputies (America/Europe)
1	Colliders and Related Accelerators	Jie Gao, IHEP	Jie Wei, FRIB/MSU
2	Photon sources and electron accelerators	Toru Hara, RIKEN/Spring-8	Nicolas Delerue, CNRS
3	Novel particle sources and acceleration techniques	Hong-Wei Zhao, IMP	Enrica Chiadroni, La Sapienza
4	Hadron accelerators	Hiroshi Imao, RIKEN/Nishina	John Lewellen, LANL
5	Beam dynamics and EM fields	Seunghwan Shin, Korea-4GSR/KBSI	Rogelio Tomas, CERN
6	Beam instrumentation, controls, feedback and operational aspects	Thapakron Pulampong, SLRI	Eliana Gianfelice-Wendt, FNAL
7	Accelerator technology and sustainability	Zong-Kai Liu, NSRRC	Ralf Gebel, FZJ and GSI
8	Applications of accelerators and Engagement for Industry and Society	Ceri Brenner, ANSTO	Cameron Geddes, LBNL
	Ex-officio	Ming-Chuang Lin, NSRRC: OC Chair Yoichi Sato, KEK/J-PARC: SPC Chair	
	Co-opted members	Jui-Che Huang, NSRRC: LOC Chair David Button, ANSTO: Chief Editor Stella Su, NSRRC: Scientific Secretary (Not yet / Yoichi Sato): Industry session (Mika Masuzawa / Yoichi Sato): EQO session Huang-Hsiu Tsai, NSRRC: Student program	

These descriptions needed  
 very-long-discussion in OC1/SPC1  
 though start from the copy of IPAC'24

# IPAC'25 SPC timeline and expected tasks



## SPC1: 2023-DEC-4,5 Taipei, Taiwan ✓

- Review and finalize Main Classifications (MCs) and Sub classifications
- Allocate oral sessions amongst the MCs
- Establish the program structure and draft synoptic table
- Agree on constitution of the Scientific Advisory Board (SAB) – can trigger submission

## SPC2: 2024-MAY-24,25, Nashville, USA ✓

- Select invited orals from proposals by SPC/SAB/OC – balance topics, labs, countries etc.
- Select Opening and Closing plenary topics and speakers

## SPC3: 2025-JAN-6,7, Tokyo, Japan ----VENUE for IPAC'28 ✓

- Select contributed orals from submitted abstracts.
- Select session chairs from OC/SPC.
- Select Industry (Special) topics and speakers – LOC to determine.
- Finalize any outstanding program issues.

## During Conference: 2025-JUN-1-6, Taipei, Taiwan --- IPAC'25

- Evaluate posters during Student Poster session.
- *Identify papers with potential for PRAB publication.*
- Provide feedback on conference organization –post event.

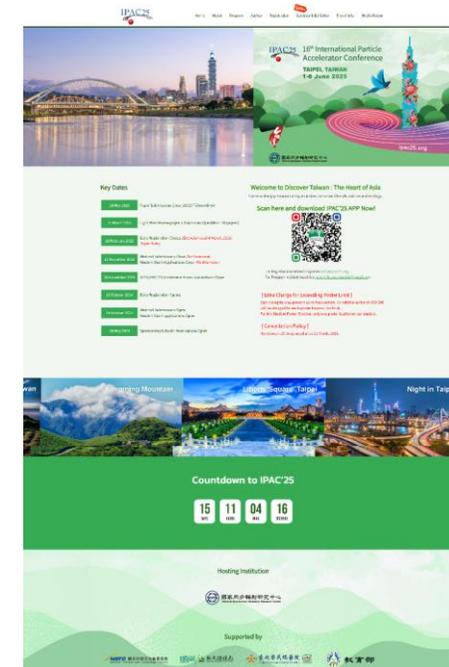
[ipac25.org](http://ipac25.org)



WEB



APP



# Nomination Policy of Invited Orals

1. Priority distribution in each MC,
2. **Avoiding duplication of talks presented in IPAC'23 and IPAC'24** (see also the list of talks presented previously),
3. **Good balance** over 3 regions, countries in the region, fields/component systems, and gender, since this is an Asian-organized IPAC, so we are targeting **50% for Asia, 25% for the Americas, and 25% for Europe**.
4. **Voting results are guidance**, which should be respected as much as possible, as long as other criteria is also respected. If needed, selection can deviate from the ranking by votes in order to define a fair, inclusive and excellent scientific program,
5. Speaker must not be member of OC and SPC (but can be a member of the SAB),
6. For the MC session chairs, the MC coordinators should each chair a session. In case of more than 2 sessions for a MC, either a MC coordinator can chair two sessions or we take another member of the OC. If no adequate person for this in OC, we can also take from SAB somebody suited who we know will attend. As a last resort: any other person deemed appropriate.

# SPC criteria for contribution talk priorities



IPAC'25 in SPC2 MAY 2024

MC Coordinators should try to:

- Select major, significant, timely topics  
demonstrated results better than promise to create a result
- Provide a balance over MC research fields
- **Avoid duplication** with invited talks presented in IPAC'23, '24,  
or **invited talk at IPAC'25 - either speaker or topic**
- Ensure a suitable regional and institutional balance  
Regional balance basically AS:EMEA:AM  $\approx$  2:1:1 for Asian-IPAC
- **Ensure strong gender balance --- considering the balance of invited oral speakers**
- Not select OC or SPC members as speakers  
SAB members can give talks.
- Provide candidates for allocated slots, and reserve talks

# Proposed contribution talk policy

IPAC'25 in SPC2 MAY 2024



- Invited speakers **MUST** present their talk in person, no option for remote presentations to be made available
- If speaker cannot, then it will be replaced with an alternative speaker or alternative talk
- ~~need to discuss if remote talk allowed~~  
~~if selected speaker cannot obtain visa (\*)~~

**(\*) OC/LOC point that Option of Online-Discussion is TOO expensive to allow in the view of budget.  
-> A No-Visa speaker needs to find his/her representative as a speaker on site.**

# IPAC'25 SPC Decisions



- *IPAC'24, May 2024, Nashville, US*
  - *Adopt Synoptic Table close to IPAC'22, '23 format "2 parallel session"*
  - *No LPR (due to America's PAC OC bylaws)*
  - *No Student tutoring for IPAC'24 (done for NA-PACs in Americas), but Student poster session was held*
- *Future IPAC conferences*
  - *IPAC'26, Deauville, France (near GANIL)*
  - *IPAC'27, Detroit, US (near FRIB/MSU)*
  - *IPAC'28, Tokyo, Japan (near KEK, RIKEN-Nishina)*
- **Modifications on the Main Classifications. --- Big modifications in MC8.**
- **Light Peer Review**
  - **Do again for IPAC'25, but limited for early-career-people**
- **No option for remote presentations**
- **Set number of poster limit**
  - **Free up to 4 posters. More than 4, 200 USD/poster**
- **Set Actual Speakers beyond SPC2 and SPC3 discussion**
  - **Many nominated US/PRC speakers could not attend IPAC'25 in person.**
  - **Some of them decided to give up presentation even in this April.**
- **Modify Equal Opportunity Session → Productive Research Environment Session**
  - **Session including EqO, WISE concepts**
- **Industry Session 2 hours -> 1 hour**
  - **Only for the views from Academic to Industry**
- **Student poster session**
  - **Keep on Sunday.**





## **Opening (Strategic, broad impact)**

- The Operational Challenges:
  - Achieving 500 mA High Beam Current at Taiwan Photon Source
- High Beam Power Operations at Heavy Ion Facilities:
  - Technical Developments, Challenges and Resolutions
- Review of nonlinear resonances in accelerators and storage rings;
  - including a discussion of chaos, particle diffusion and dynamic aperture
- Liquid lithium charge stripping technology: achievement and lessons learned
- RF Acceleration with Short Pulses: Breaking the High-Gradient Barrier

Ping-Jung Chou, NSRRC

Osamu Kamigaito, RIKEN Nishina

Shyh-Yuan Lee, IU

Takuji Kanemura, FRIB/MSU

Xueying Lu, ANL

## **Closing (Impactful, applications, future-looking, outreach)**

- Future circular Higgs factories: Status and prospective
- Latest Achievements in Femtosecond Synchronization of Large Scale Facilities
- BeamPIE - a suborbital test of an accelerator for space applications

Yuhui Li, IHEP

Sebastian Schulz, DESY

Quinn Marksteiner, LANL



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Achieving 500 mA High Beam Current at Taiwan Photon Source Ping-Jung Chou, NSRRC
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## Closing (Impactful, applications, future-looking, outreach)

- ~~Future circular Higgs factories: Status and prospective~~ ~~Yuhui Li, IHEP~~  
→ **In late March Dr. Li told us not to join IPAC2025. All people recommended by Dr. Li could not be his representative speaker along w IPAC policy (No multiple orals/person, NO OC/SPC be speaker). I had to set a CERN talk (F. Zimmermann) as its alternative topic, but keeping MC1 category in MAY 2025.**
- Latest Achievements in Femtosecond Synchronization of Large Scale Facilities Sebastian Schulz, DESY
- BeamPIE - a suborbital test of an accelerator for space applications Quinn Marksteiner, LANL



## MC1: Colliders and Related Accelerators

- EIC accelerator status
- ILC accelerator status
- Design Initiatives for a 10 TeV pCM Wakefield Collider
- Status of the Baseline Design for a 10 TeV Muon Collider

## MC2: Photon Sources and Electron Accelerators

- Toward realization of few-cycle free electron lasers: basic concept and its experimental demonstration
- Cascaded hard X-ray self-seeded free-electron laser at megahertz repetition rate
- SPS-II Project: Status update
- LCLS-II commissioning and operation with high-repetition-rate CW FELs

## MC3: Novel Particle Sources and Acceleration Techniques

- Enhanced proton and neutron production using the ultra-short (24 fs) and high-power (2 PW) Apollon laser facility
- Record beam intensity productions of Highly charged heavy ions by 28-45 GHz superconducting ECR ion sources at IMP
- Guiding of charged particle beams in curved plasma-discharge capillaries

## MC4: Hadron Accelerators

- Beam commissioning of K=500 Superconducting Cyclotron at VECC
- Personnel and machine protection for high power accelerator commissioning, operations, and power ramp up
- Deceleration of Ion Beams - Related Challenges and Opportunities

## MC5: Beam Dynamics and EM Fields

- Review of Linear and Nonlinear Optics Measurements in the CERN-LHC
- Review of impedance effects for accelerators
- Review of beam based correction and optimisation for accelerators
- Elevating Beam Quality and Stability in Linear Accelerators through High Order Mode Analysis
- Ultrafast visualization of an electric field under the Lorentz transformation

## MC6: Beam Instrumentation and Controls, Feedback and Operational Aspects

- Upgrade of KEK electron/positron Injector Linac by using pulse magnets and machine learning
- Reinforcement Learning in Particle Accelerators

## MC7: Accelerator Technology and Sustainability

- Experimental demonstration of particle acceleration with normal conducting accelerating structure at cryogenic temperature
- Overview of permanent magnet implementations for advanced light sources
- Assessing and Increasing the sustainability of future accelerator based facilities
- Development for Various Applications at Compact ERL as a high-power CW SRF linac in KEK
- Neutron target for high-intensity operation at J-PARC MLF

## MC8: Applications of Accelerators, and Engagement for Industry and Society

- Carbon ion therapy facility at Taipei Veterans General Hospital
- Compact hadron sources and linacs for societal applications

SPC3 allows for further balancing of topics, regions, labs, speakers, ...  
NOTE: No Invited Talks from Korea  
→ Increased Contribution Talks from Korea

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- Deceleration of Ion Beams - Related Challenges and Opportunities

**MC4: 3->2 --- EXTRA ORDINARY CASE  
But considering 2 Plenary talk from MC4**

## MC5: Beam Dynamics and EM Fields

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**I had to decide to set many alternative speakers/topics even after SPC3.**

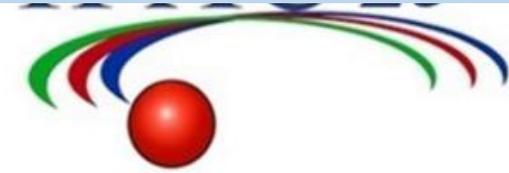
SPC3: 2025-JAN-6,7, Tokyo, Japan ----VENUE for IPAC'28

Select contributed orals from submitted abstracts.

Select session chairs from OC/SPC.

Select Industry (Special) topics and speakers – LOC to determine.

Finalize any outstanding program issues.



## January – March, 2025

We tried to set all Contribution Orals, based on SPC3, but many nominated US/PRC speakers declined.

→ some understandable.

→ We set alternative speakers and topics *under Email problem ( → Jui-Che's)*

## March – April, 2025

Closing to the end of March (withdraw due of 80% refund )

Many people **gave up to join IPAC25 in person,**  
**including 1 INVITED PLENARY.**

[Plenary/Invited]

(P-1) AS/PRC: MC1->MC0, Future circular Higgs factories: Status and prospective, Yuhui Li, **IHEP**

**NO-SHOW notice w/o available-alternative in late March 2025**

[Invited]

(I-1) AS/India: Beam commissioning of K=500 Superconducting Cyclotron at VECC, Jayanta Debnath, DAE

**NO RESPONSE since Aug. 2024**

[Contributed] **Asked in January 2025, Accepted once, but NO-SHOW notice w/o alternative in late March.**

(C-1) AS/PRC: MC1, Commissioning of BEPCII-U, Huiping Geng, **IHEP**

(C-2) AS/PRC: MC2, An ultrafast strong-field terahertz light source to characterize quantum functional materials, Tong Zhang, U Science and Tech of China

(C-3) AS/PRC: MC3, Development of the sub-nanosecond grid-controlled electron source for Hefei Advanced Light Facility injector, Feng-lei Shang, U Science and Tech of China

(C-4) AS/PRC: MC4, Upgrade progress for the CSNS-II RCS, Ming-Yang Huang, **IHEP**

(C-5) AS/PRC: MC6, Machine learning-based orbit correction in the RCS of CSNS, Xiaohan Lu, **IHEP**

(C-6) AS/PRC: MC7, Design and implementation of ridge waveguides for dual-mode microwave structure, Xiaoxia Huang, Shanghai Sync Rad F

**NOTE: From PRC, many IMP people are in IPAC2025**

**Hongwei's comment: IMP started action to take VISA in JAN.2025**



# IPAC'25 SPC Final



## IPAC'25 Scientific Program

Reduced 90 talks to 84 talks, though adopting alternative topics

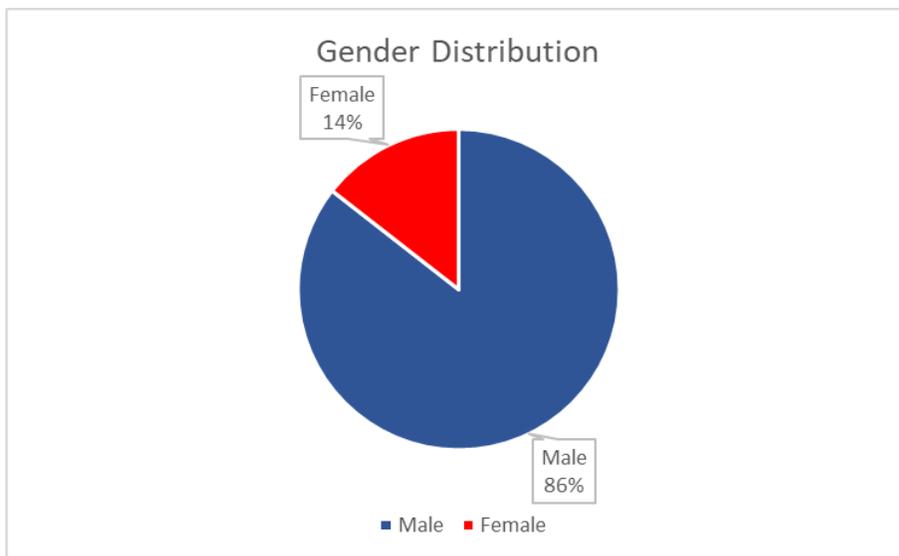
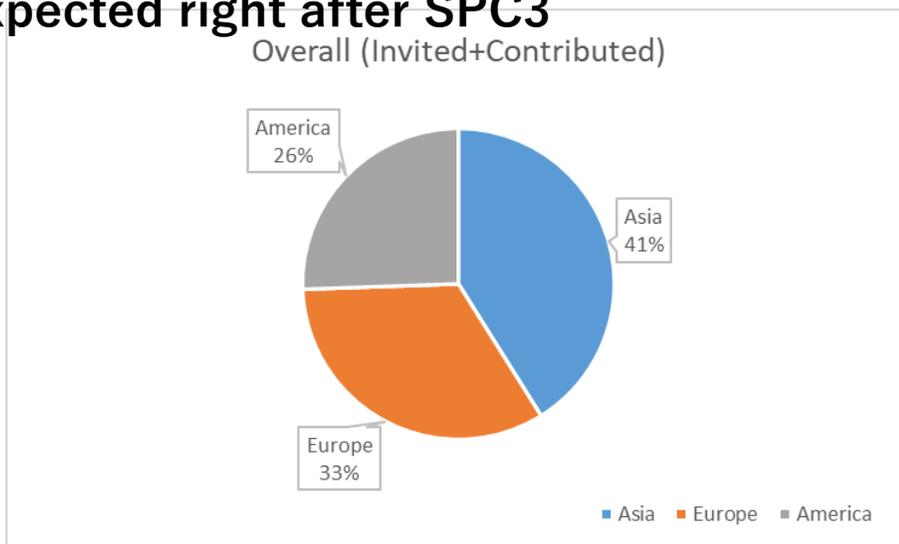
Time slots were modified: Longer Lunch Break on Thursday, Friday morning session parallel to single.

Time	Sun. 1 June	Monday 2 June	Tuesday 3 June	Wednesday 4 June	Thursday 5 June	Friday 6 June			
		<p>☉ Plenary Hall, TICC Chair: Ming-Chyuan Lin</p>	<p>☉ 101, TICC Chair: Hiroshi Imao</p>	<p>☉ 201, TICC Chair: Seunghwan Shin</p>	<p>☉ 101, TICC Chair: Thapakorn Pulamong</p>	<p>☉ 101, TICC Chair: Enrica Chiadroni</p>	<p>☉ 201, TICC Chair: Mohammad Eshraqi</p>	<p>☉ 101, TICC Chair: Rogelio Tomas</p>	
9:00		Welcome Address	Personnel and machine protection for FRIB commissioning, operations, and power ramp up Masanori Ikegami, FRIB	Elevating beam quality and stability in linear accelerators through high order mode analysis Sanae Samsam, INFN	Experimental demonstration of particle acceleration with normal conducting accelerating structure at cryogenic temperature Sami Tantawi, ASU	Upgrade of KEK electron/positron injector linac by using pulse magnets and machine learning Takuya Natsui, KEK	Guiding of charged particle beams in curved plasma-discharge capillaries Riccardo Pompili, INFN	Review of beam based correction and optimisation for accelerators Xiaobiao Huang, SLAC	Neutron target for high-intensity operation at J-PARC MLF Katsuhiko Haga, JAEA
9:30		The operational challenges: achieving 500 mA high beam current at Taiwan Photon Source Ping-Jung Chou, NSRRC	Progress in linac beam commissioning for high-intensity operations for J-PARC power upgrades Yong Liu, KEK	Study on the eddy current distribution in the coating layer on the ceramic chamber of a nonlinear kicker Hao-Wen Luo, NSRRC	20 years of CESR-B cavity operation at the CLS Frédéric Le Pimpec, CLS	Measurement techniques using the electron beam profile scanner at the Fermilab Main Injector Matilda Wronnik, Illinois Institute of Technology	Progress on experimental demonstration of high-power generation from 0.4 THz corrugated structure Minkyu Seo, Korea University	Assessing the origin of the LHC beam halo Pascal Hermes, CERN	Review of impedance effects for accelerators Takeshi Toyama, KEK
9:50			Status of the proton linac for boron neutron capture therapy in the IBNCT project Masaharu Sato, KEK	No parametric instabilities in actual linear accelerators except the envelope instability Dong-Q Jeon, IBS	High power RF testing of high-temperature superconductors Ankur Dhar, SLAC	Data-driven hysteresis compensation in the CERN SPS main magnets Anton Lu, CERN	First measurements of electron acceleration with a plasma density step at AWAKE Fern Pannell, UCL	Coherent stability and dynamic aperture with strong space charge for the FAIR SIS100 synchrotron Adrian Oefinger, John Adams Institute	
10:00		High beam power operations at heavy ion facilities: Technical developments, challenges and resolutions Osamu Kamigaito, RIKEN Nishina Center	Injection into Resonance Islands Henry Lovelace III, BNL	Comprehensive study of Robinson instability in active and passive higher harmonic cavities for bunch lengthening Youngmin Park, POSTECH	Further high power tests of the additive manufacturing IH-type cavity Hendrik Hähnel, Goethe University Frankfurt	Supersonic gas curtain-based in-vivo transverse beam profile monitoring for medical accelerators Narendar Kumar, Cockcroft Institute	Development of cold atom electron source in KEK Yosuke Honda, KEK	Dynamic dipole kick due to a rippling sextupole Boris Podobedov, BNL	Review of linear and nonlinear optics measurements in the CERN LHC Ewen Hamish Maclean, CERN
10:30		Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC	Coffee Break (30 mins) ☉ TWTC
	Student Training ☉ TWTC 2F Room #5	☉ 101, TICC Chair: Tadashi Koseki	☉ 101, TICC Chair: Hong-Wei Zhao	☉ 101, TICC Chair: Jie Wei	☉ 101, TICC Chair: Peter McIntosh	☉ 201, TICC Chair: Nicolas Delerue	☉ 101, TICC Chair: Eric Prebys	☉ 201, TICC Chair: Prapong Klysubun	☉ 101, TICC Chair: Yoichi Sato
11:00		Review of nonlinear resonances in accelerators and storage rings; including a discussion of chaos, particle diffusion and dynamic aperture Shyh-Yuan Lee, Indiana University	Record beam intensity productions of highly charged heavy ions by 28-45 GHz superconducting ECR ion sources at IMP Liangting Sun, IMP	Electron-Ion Collider status Serge Nagaitsev, BNL	Assessing and increasing the sustainability of future accelerator based facilities Ben Shepherd, STFC	Ultrafast visualization of quasi-three-dimensional electric field of relativistic electron beam Koichi Kan, QST	Reinforcement learning in particle accelerators Andrea Santamaría Garcia, University of Liverpool / Cockcroft Institute	Deceleration of ion beams - Related challenges and opportunities Frank Herfurth, GSI	Latest achievements in femtosecond synchronization of large scale facilities Sebastian Schulz, DESY
11:30		Liquid lithium charge stripping technology: Achievement and lessons learned Takuji Kanemura, FRIB	Experimental generation of petawatt power, extreme electron beams in a particle accelerator Claudio Emma, SLAC	The third long shutdown (LS3) of the CERN accelerator complex Jean-Philippe Tock, CERN	Cryogenic efficiency and sustainability aspects for particle accelerators & detectors Antonio Perin, CERN	Empowering a broad and diverse community in beam dynamics simulations with Kusite Szymon Lopaciuk, CERN	Development of an RFSoC-based low-level RF controller for an electron linac Hirokazu Maesaka, RIKEN Spring-8	Commissioning 1.7 MW, 1.3 GeV beam for the proton power upgrade at SNS Nicholas Evans, ORNL	BeamPIE – a suborbital test of an accelerator for space applications Quinn Marksteiner, LANL
11:50			Status of the CARIE high gradient photocathode test facility at Los Alamos National Laboratory Evgenya Simakov, LANL	RHIC polarized proton operation in Run24 Kiel Hock, BNL	Active 3rd harmonic RF system for ALBA Francis Perez, ALBA	A module for fast auto-differentiable simulations Ji Qiang, LBNL	Development of non-invasive beam diagnostics by quantum optics-based detection Shukai Zhang, Jefferson Lab	FAIR commissioning - Towards first science Stephan Reimann, GSI	
12:00		RF acceleration with short pulses: Breaking the high-gradient barrier Xueying Lu, NIU/ANL	Optimization of the Korea-4GSR storage ring for increasing the off-momentum dynamic aperture by analyzing resonance driving terms Junha Kim, PAL	Exceeding high-luminosity LHC performance targets during the 2024 Pb-Pb ion run Roderik Bruce, CERN	Integrating permanent magnets and electromagnets: a hybrid dipole magnet design Yang-Yang Hsu, NSRRC	Off-resonance scheme for highly coupled lattice designs in the diffractor-limited light sources Yihao Gong, SSRF			Highlights from future circular collider feasibility study and path to construction Frank Zimmermann, CERN
12:30		Lunch break (90 mins) ☉ TWTC	Lunch break (90 mins) ☉ TWTC	Lunch break (90 mins) ☉ TWTC	Lunch break (90 mins) ☉ TWTC	Lunch break (90 mins) ☉ TWTC	Lunch break (80 mins) ☉ TWTC	Lunch break (80 mins) ☉ TWTC	Lunch break (80 mins) ☉ TWTC
13:30									Closing Remarks (12:30 - 13:30)
		☉ 101, TICC Chair: Ryoichi Hajima	☉ 201, TICC Chair: Zong-Kai Liu	☉ 101, TICC Chair: Toru Hara	☉ 201, TICC Chair: Jordi Marcos Ruzafa	☉ 101, TICC Chair: Yoichi Sato	☉ 201, TICC Chair: Adriana Wawrzyniak	☉ 101, TICC Chair: In-Soo Ko	
14:00		ILC accelerator status Hiroshi Sakai, KEK	Overview of permanent magnet implementations for advanced light sources Ciro Calzolari, PSI	Toward realization of few-cycle free electron lasers: basic concept and its experimental demonstration Takashi Tanaka, RIKEN Spring-8	Carbon ion therapy facility at Taipei Veterans General Hospital Keng-Li Lan, TVGH	Cascaded hard X-ray self-seeded free-electron laser at megahertz repetition rate Shan Liu, DESY	Award Session (13:30 - 14:50)		Facility Tour (13:30 - ) Taiwan Photon Source, National Synchrotron Radiation Research Center or Heavy Ion Therapy Center, Taipei Veterans General Hospital
14:30		Status of the baseline design for a 10 TeV muon collider Daniel Schulte, CERN	Development for various applications at compact ERL as a high-power CW SRF linac in KEK Masahiro Yamamoto, KEK	SPS-II project: Status update Pornpip Sudmaung, SLRI	Compact hadron sources and applications Alessandra Lombardi, CERN	LCLS-II commissioning and partnership with high-repetition-rate CW FELs Yuanhao Ding, SLAC	Best Student Poster Award (14:50-15:00)		Plenary talk
	Student Poster Session ☉ TWTC	☉ 101, TICC Chair: Ryoichi Hajima	☉ 201, TICC Chair: Zong-Kai Liu	☉ 101, TICC Chair: Toru Hara	☉ 201, TICC Chair: Jordi Marcos Ruzafa	☉ 101, TICC Chair: Tadashi Koseki	☉ 201, TICC Chair: Adriana Wawrzyniak	☉ 101, TICC Chair: Jui-Che Huang	
15:00		Updated baseline design for HALHF: the hybrid, asymmetric, linear Higgs factory Eric Adli, Univ. of Oslo	Nb3Sn cavity development based on vapor deposition method at KEK Hayato Ito, KEK	Operational status and future project of the KEK Photon Factory Takashi Ohina, KEK	Communicating environmental sustainability guidelines for large accelerator facilities Hannah Wakeing, John Adams Institute	Design initiatives for a 10 TeV pCM wakefield collider Stewart Boogert, Cockcroft Institute	SLS 2.0 storage ring commissioning Michael Böge, PSI	Entertainment Session (15:00 - 15:30) Why Did My Ancestors Leave Taiwan? Futuru C.L. Tsai	MC1 Colliders and Related Accelerators
15:20		Future e+e- colliders using recycling energy recovery linacs Vladimir Litvinenko, Stony Brook University	Recent developments in the accelerator equipment automation field Konstantinos Papastergiou, CERN	Commissioning of the Advanced Photon Source Upgrade – the first swap-out injection-based synchrotron light source Vadim Sajaev, ANL	Engineering magnetic carbon nanotubes via swift heavy ion irradiation for spintronics and quantum technologies: XAS and RAMAN study Prival Singh, Panjab University	First beam commissioning of the HZB superconducting radio-frequency photoelectron gun Thorsten Kamps, HZB			MC2 Photon Sources and Electron Accelerators
15:30		Observations and efforts to reduce sudden beam loss at SuperKEKB Hitomi Ikeda, KEK	Searches for RF breakdown precursors using cherenkov light in optical fibers Paarangat Pushkarna, Univ. of Melbourne	Evaluation method and countermeasures for the beam loss in fourth-generation light sources Toshiko Hiraiwa, RIKEN Spring-8	Commissioning of the South African Kotope Facility Hugo Barnard, IThemba LABS	Enhanced proton and neutron production using the ultra-short (24 fs) and high-power (2 PW) Apollon laser facility Julien Fuchs, CNRS	Experimental demonstration of transient-beam-loading compensation using new digital LRF system at the Photon Factory storage ring Daichi Naito, KEK	Poster Session / Coffee (15:30-17:30) ☉ TWTC	MC3 Novel Particle Sources and Acceleration Techniques MC4 Hardron Accelerators
16:00		Poster Session / Coffee ☉ TWTC	Poster Session / Coffee ☉ TWTC	Poster Session / Coffee ☉ TWTC	Poster Session / Coffee ☉ TWTC	Poster Session / Coffee ☉ TWTC	Poster Session / Coffee ☉ TWTC	Poster Session / Coffee ☉ TWTC	MC5 Beam Dynamics and EM Fields MC6 Beam Instrumentation and Controls, Feedback and Operational Aspects
18:00	Welcome Reception (18:00-20:00) ☉ TICC 1F		Productive Research Environment (17:50-20:40) ☉ 102, TICC					Conference Banquet (18:45-20:40) ☉ Grand HILai Taipei	MC7 Accelerator Technology and Sustainability MC8 Applications of Accelerators, and Engagement for Industry and Society

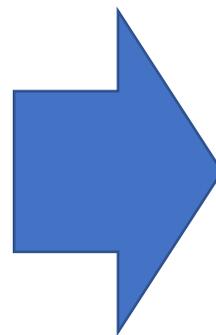
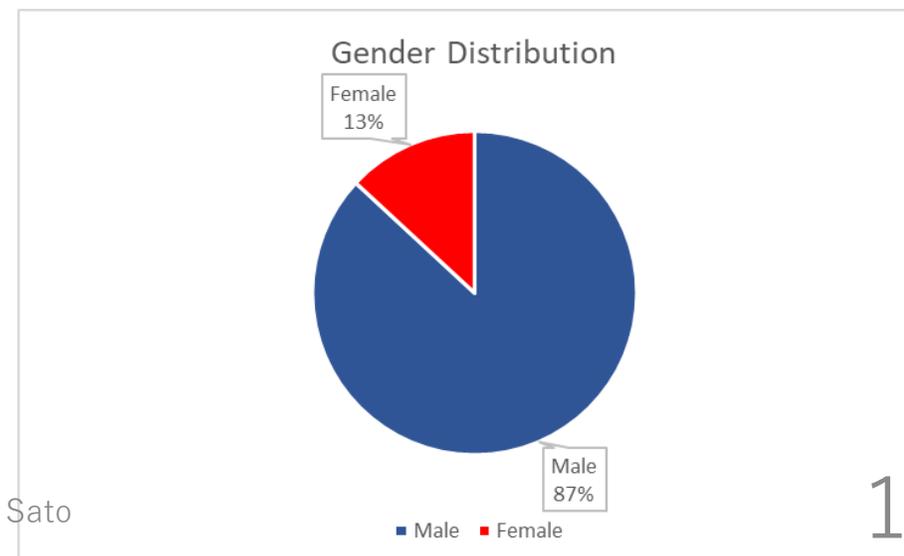
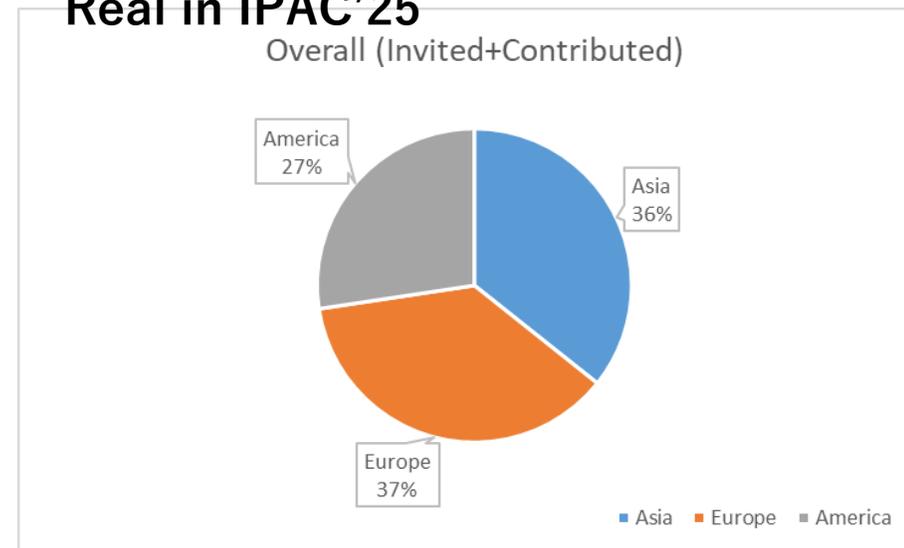
Thank many speakers accepting my urgent request to be oral presenters

# IPAC'25 Oral Presentations

## Contributed and Invited Orals (90 Talks) Expected right after SPC3



## Contributed and Invited Orals (84 Talks) Real in IPAC'25



# IPAC'25 Participants



- The participation of attendees from the United States and China remains highly uncertain, **resulting in some last-minute cancellations and increasing the difficulty of scheduling the program.**

**Heavy effects from Political/Natural environments.**

## IPAC'25

- **939 people paid registration fee among 1153 registrations (we had to refund.)**
- **Projected deficit: ~~EXPECTED 0.1 ~ 0.2 M USD~~ → Found OK**

**However, still financial risk exists in future IPACs**

**MEASURES?**

# IPAC'25 Satellite Meetings



Date	Time	Meeting Name	Open/Closed	Room
Saturday, 31 May	08:30–17:00	<u>Insertion Devices for Future Light Sources Workshop (ID25)</u>	By Registration	TWTC 2F, Room A+
Sunday, 1 June	08:30–12:30			
Tuesday, 3 June	08:30–10:30	APS/PRAB Authors' Tutorial	OPEN	TICC 3F, South Lounge
	12:30–14:00	IPAC Coordination Committee Meeting and Lunch	By Invitation	TICC 1F, Room 106
	14:00–16:00	ACFA Meeting	By Invitation	TICC 1F, Room 106
	17:50–20:30	"Meet the APS/PRAB Editors" Reception	OPEN	TICC 1F
		Productive Research Environments Reception	OPEN	TICC 1F, Room 102
	18:00–20:00	IPAC'26 Exhibitor Reception	By Invitation	TICC 4F, VIP Room
Wednesday, 4 June	12:30–14:00	JACoW Stakeholders Meeting	By Invitation	TWTC 2F, Room A+
	18:00–20:30	Electron Ion Collider (EIC) Accelerator Collaboration	OPEN	TICC 1F, Room 102
	18:00–20:30	IPAC25 Organizing Committee Dinner	By Invitation	Grand Hyatt Hotel, 1F
Friday, 6 June	13:30–17:00	IPAC'26 Scientific Programming Committee	By Invitation	TWTC 2F, Room A+

# IPAC'25 PRE (Productive Research Environment) Session



## Key objectives:

- Share effective approaches and research environments that lead to productive outcomes.
- Attract younger and mid-career professionals to the accelerator community.
- Enhance productivity and contribute more effectively to society by leveraging a strong pool of human resources.

## Introduction from Coordinators

### PRE pre-survey to check World Leaders' attitude

Pre-session questionnaire to: OC/SPC/SAB committee members in IPAC'22 - '25.

**Survey for Manager/Leader class people.**

## Presenters, panelists

- Share ideas for more productive research environment based on your career advancement experiences
- propose any strategies you may have.

## Free discussion

# Coordinators, Presenters, Panelists

## **PRE Coordinators:**

Dr. Yoichi Sato - KEK / J-PARC

AS

Dr. Mika Masuzawa - KEK / SuperKEKB

AS

## **PRE Presenters and Panelists:**

Dr. Mika Masuzawa - KEK / SuperKEKB

AS

Dr. Somjai Chunjarean - Synchrotron Light Research Institute

AS

Dr. Angeles Faus-Golfe - Universite Paris-Saclay, CNRS/IN2P3, IJCLab

EMEA

## **Additional Panelist:**

Dr. Francis Perez - ALBA Synchrotron

EMEA

Dr. Ryoichi Hajima - National Institutes for Quantum Science and Technology

AS

Dr. Raffaella Geometrante - Kyma SpA

EMEA

## **ANNOUNCEMENT**

**After the session, Coordinators, Presenters, Panelists **will report** the summary of this PRE to IPAC'26 in the form of proceedings.**

# IPAC25 PRE pre-survey

Pre-session questionnaire to: OC/SPC/SAB committee members in IPAC'22 - '25.

**Survey for Manager/Leader class people.**

Demographic Information; Gender\* Region\*

## Section A

**Please answer the following questions reflecting on the first 10 years of your research career.**

**Q1.To what extent were you satisfied with your working environment?\***

- 5: Completely satisfied
- 4: Mostly satisfied
- 3: Neutral
- 2: Mostly dissatisfied
- 1: Completely dissatisfied

**Q2.Have you ever wondered whether you should continue with your job?\***

- 5: Never
- 4: Seldom
- 3: Sometimes
- 2: Often
- 1: Almost always

**Q3. To what extent were you motivated to take on a managerial role?\***

- 5: Strongly motivated
- 4: Moderately motivated
- 3: Neutral
- 2: Somewhat reluctant
- 1: Strongly opposed

## Section B

**Please answer the following questions reflecting on your current situation.**

**Q4.To what extent are you satisfied with the adequacy of staffing levels in your group?**

- 2
- 5: Very satisfied
- 4: Satisfied
- 3: Neutral
- 2: Dissatisfied
- 1: Very dissatisfied

**Q5.What is the level of interest among young researchers in building their careers in your group?**

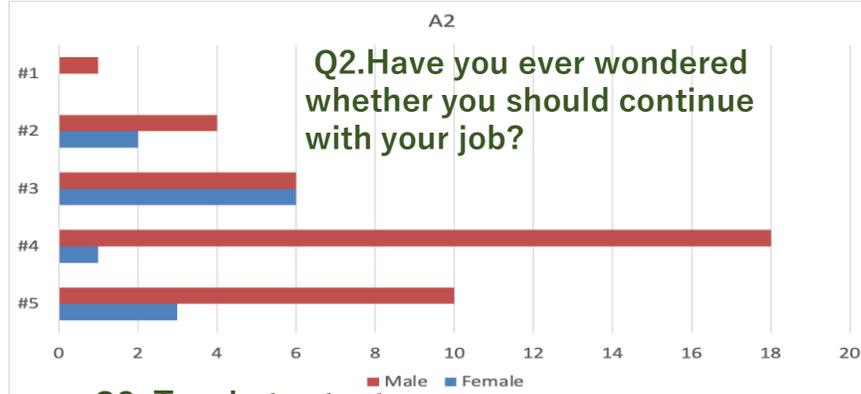
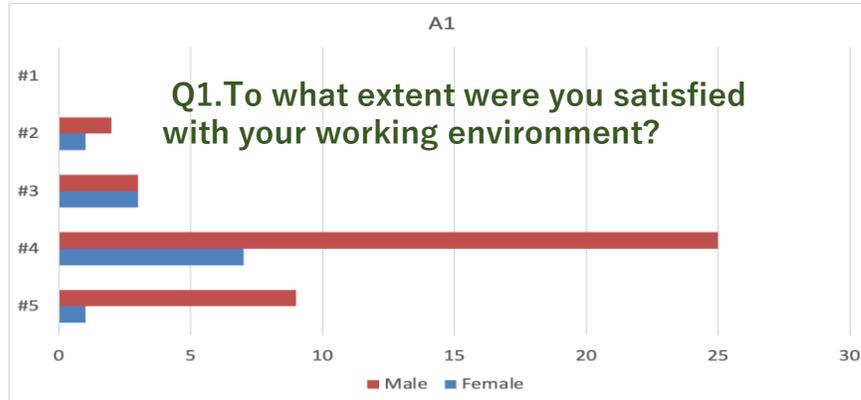
- 5: Very high
- 4: Above average
- 3: Average
- 2: Below average
- 1: Very low

**Q 6.Please outline the key factors you consider essential for fostering a productive research environment (approx. 50 words).**

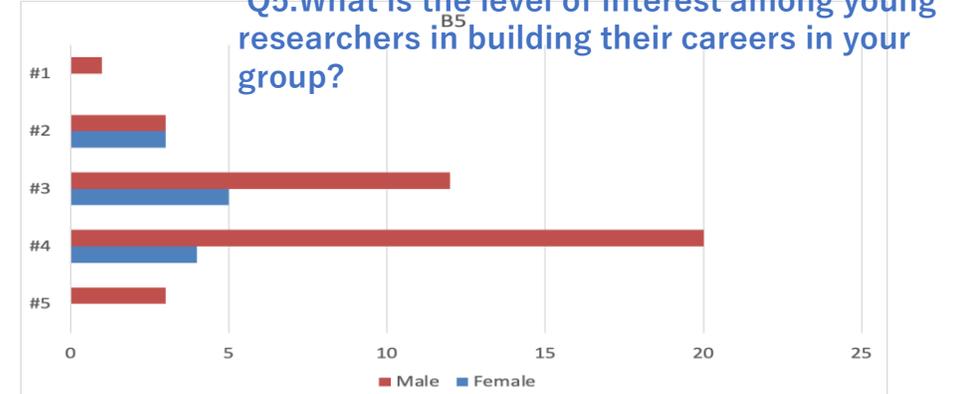
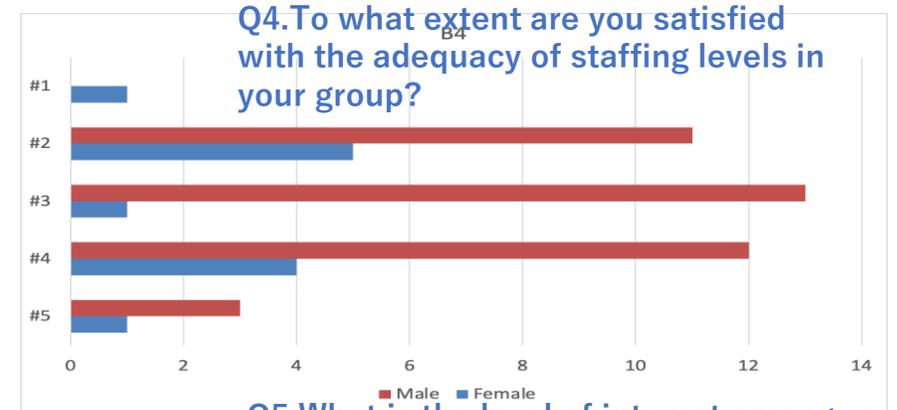
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# PRE pre-survey to OC/SPC/SAB in IPAC'22 – '25

**Section A**  
Please answer the following questions reflecting on the first 10 years of your research career.



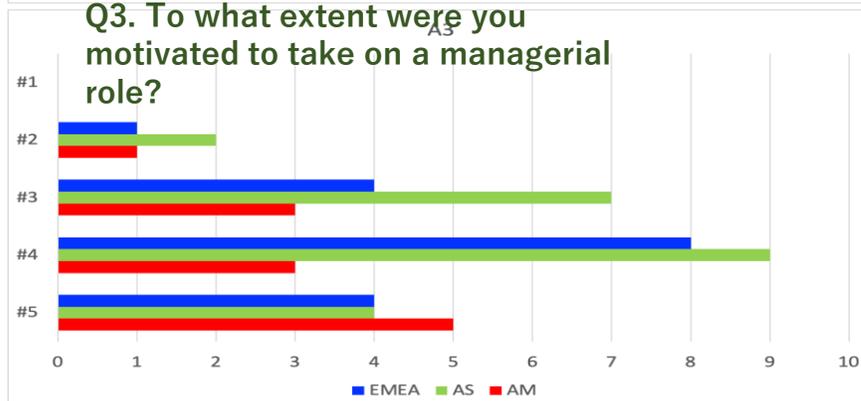
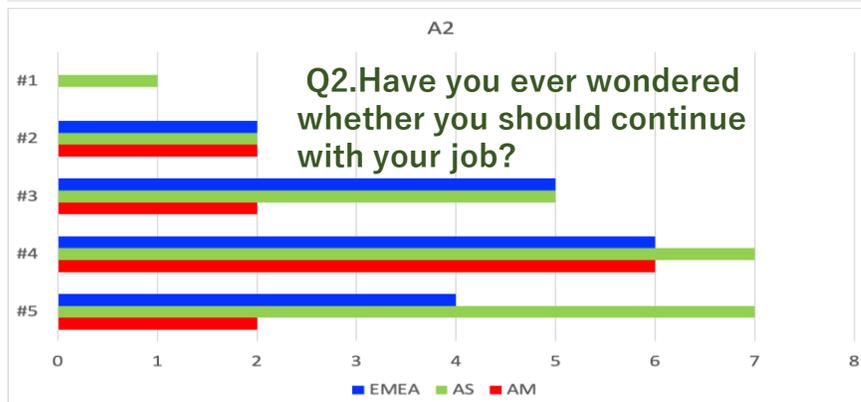
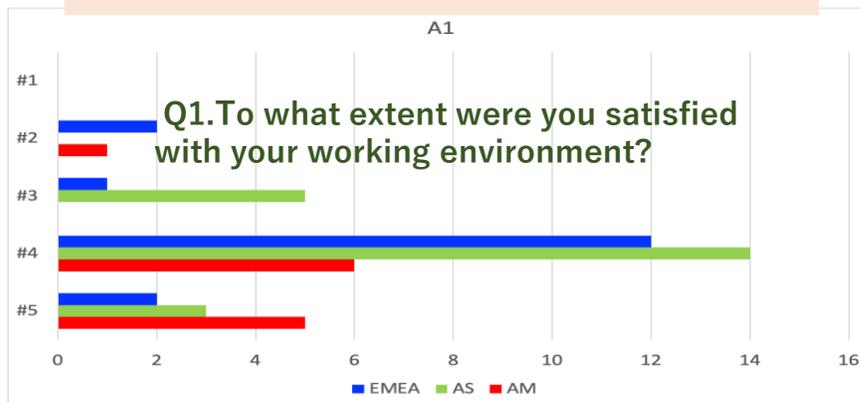
**Section B**  
Please answer the following questions reflecting on your current situation.



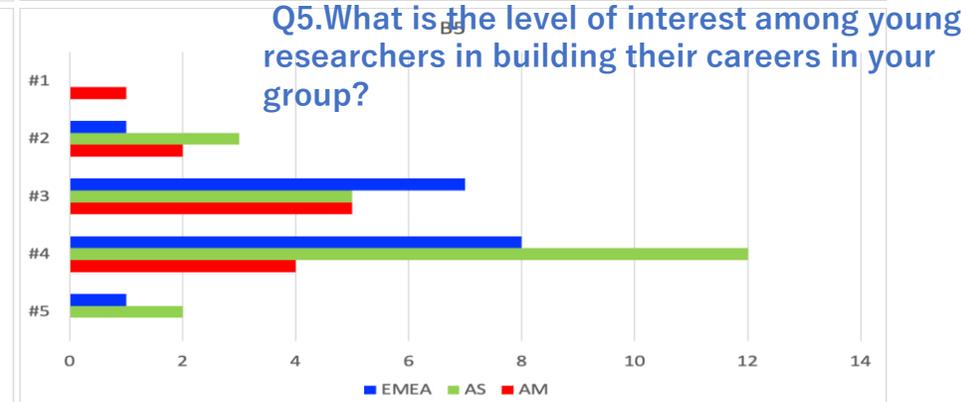
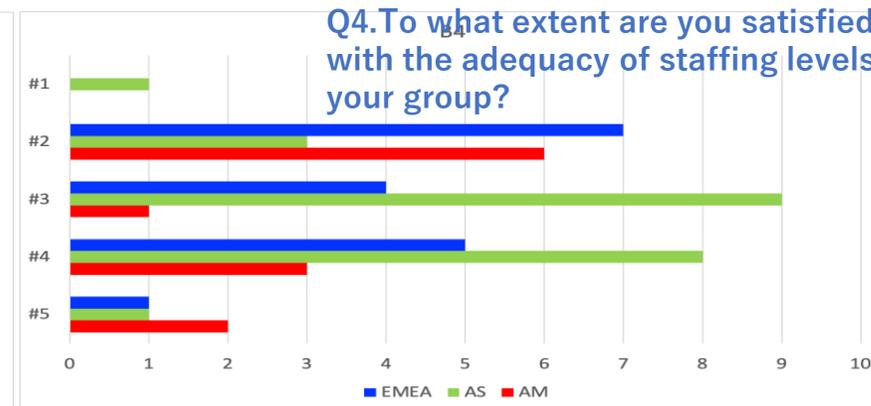
Female Male

# PRE pre-survey to OC/SPC/SAB in IPAC'22 – '25

**Section A**  
Please answer the following questions reflecting on the first 10 years of your research career.



**Section B**  
Please answer the following questions reflecting on your current situation.



■ EMEA ■ AS ■ AM