

# AMASE-P Critical Design Review Meeting (Dec 2-5, 2025)

- **Dates:** 9:00am -6:00pm from 2 Dec 2025 to 5 Dec 2025
- **Location:** [University of Chicago Hong Kong Campus](#)
- **Address:** 168 Victoria Rd, Pok Fu Lam, Hong Kong Island, Hong Kong SAR, China
- **Hotel:** Hotel JEN Hong Kong
- **Transportation:** Bus will be arranged between Hotel JEN and the meeting site everyday. There will be a UChicago logo on the bus window for easy identification. For those who are not staying at Hotel JEN, you can take a local bus. See [Notes on transportation](#)
  - **Dec 2:**
    - 8:30 am Hotel JEN drop-off area → UChicago HK Campus (27-seater x 1);
    - 5:45 pm UChicago HK Campus → Hotel JEN (27-seater x 1)
  - **Dec 3:**
    - 8:30 am Hotel JEN drop-off area → UChicago HK Campus (27-seater x 1)
    - 1:30 pm UChicago HK Campus → CUHK Science Centre North Block (27-seater x 2)
    - 6:00pm CUHK Science Centre → Club One Riviere (60-seater)
    - 8:30 pm Club One Riviera → Kowloon Town MTR → Hotel JEN (60 seater)
  - **Dec 4:**
    - 8:30 am Hotel JEN drop-off area → UChicago HK Campus (27-seater x 1)
    - 5:45 pm UChicago HK Campus → Hotel JEN (27-seater x 1)
  - **Dec 5:**
    - 8:30 am Hotel JEN drop-off area → UChicago HK Campus (27-seater x 1)
    - 5:15 pm UChicago HK Campus → Hotel JEN (27-seater x 1)
- **Contact:** Renbin Yan ([rbyan@cuhk.edu.hk](mailto:rbyan@cuhk.edu.hk))

## Review Panel

**David Law**, Space Telescope Science Institute (*Co-Chair*)

**Christy Tremonti**, University of Wisconsin

**Sebastian Sanchez**, Universidad Nacional Autónoma de Mexico

**Emily Wisnioski**, Australian National University

**Roberto Abraham**, University of Toronto

**John Wilson**, University of Virginia (*Co-Chair*)

**Thomas Herbst**, Max Planck Institute for Astronomy

**Graham Murray**, Durham University

**Will Saunders**, Macquarie University

**Nick MacDonald**, University of California Observatories (document review only)

## Block Schedule

	<b>Tue(2 Dec)</b>	<b>Wed(3 Dec)</b>	<b>Thu(4 Dec)</b>	<b>Fri(5 Dec)</b>
9:00-10:30	Survey and Science Overview	SRD Topic IV	Instrument Topic III	Survey Design II
10:30-11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00-12:30	SRD Topic I	SRD Topic V and Summary	Instrument Topic IV	Discussion with Review Panel
12:30-14:00	Lunch	Lunch	Lunch	Lunch
14:00-15:30	SRD Topic II	Instrument Topic I	Survey Design I	Discussion with Review Panel

	<b>Tue(2 Dec)</b>	<b>Wed(3 Dec)</b>	<b>Thu(4 Dec)</b>	<b>Fri(5 Dec)</b>
15:30-16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break
16:00-18:00	SRD Topic III	Instrument Topic II	Software Infrastructure	Review Panel Summary

## Meeting Program

- As we will record the presentations via Zoom over the 4 days, everyone will need to use the laptop at the venue to present. Please send the presentation file in PPT or PDF format to Zhuo Cheng([chengzphy@gmail.com](mailto:chengzphy@gmail.com)) at least 1 day before your presentation.

### Tuesday, 2 Dec 2025

Time	Speaker	Presentation Title
Session I:	<b>Chair: Hsiao-Wen Chen</b>	
9:00-9:10	VIPs	VIP Addresses
9:10-9:50	Renbin Yan	AMASE-P Project Overview (30min + 10min Q&A)
9:50-10:30	Yuguang Chen	Science Motivation Overview (30min + 10min Q&A)
10:30-11:00	Coffee Break	
Session II:	<b>Chair: Cheng Li</b>	
11:00-11:20	Zheng Zheng	The Transition from Dust-Obscured to Optically Visible Hii Regions (12 min + 8 min)
11:20-11:40	Tsang-Keung Chan	Pre-Supernova Feedback in Hii Regions (12 min + 8 min)
11:40-12:00	Wei Zhang	Tracking the Evolution of Optically Visible Hii Regions (12 min + 8 min)
12:00-12:20	Zongnan Li	The Origin of Giant Hii Regions in M31 and M33 (12 min + 8 min)
12:20-12:40	Xuan Fang (remote)	Planetary Nebulae as Probes of Stellar and Galactic Evolution (12 min + 8 min)
12:40-2:00	Lunch on campus (1:15-2:00: Tour of the Historical Heritage Site)	
Session III:	<b>Chair: Yuguang Chen</b>	
2:00-2:20	Fuheng Liang (remote)	Probing Wolf-Rayet Feedback with High-Resolution IFU Spectroscopy (12 min + 8 min)
2:20-2:40	Ping Zhou	Investigating supernova remnant interaction with the interstellar medium (12 min + 8 min)
2:40-3:00	Zongnan Li	The Ionization Mechanism of LIERs (12 min + 8 min)
3:00-3:20	Yifei Jin	Physical Conditions and Ionization Mechanisms of Diffuse Ionized Gas (12 min + 8 min)
3:20-3:50	Coffee Break	
Session IV:	<b>Chair: Mandy Chen</b>	
3:50-4:10	Lin Lin (remote)	Stellar Bow-Shocks as Probes of Star-ISM Interaction (12 min + 8 min)
4:10-4:30	Tao Jing	Disentangling Shock-Cloud Interactions in the Criss-Cross Nebula (12 min + 8 min)
4:30-5:00	Xihan Ji	Resolving the Abundance Discrepancy & Empirical Validation of Photoionization Models (20+10)
5:00-5:20	Yifei Jin	Using supernova remnant and nebula to calibrate shock models (12 min + 8 min)
5:20-5:30	Discussion for Day 1	

### Wednesday, 3 Dec 2025

Time	Speaker	Presentation Title
Session V:	<b>Chair: Yanmei Chen</b>	

Time	Speaker	Presentation Title
9:00-9:40	Zhijie Qu	Spatial distribution of the ionized cool CGM Kinematics and energy transfer in the cool CGM Microphysics in High-Velocity Clouds and the Magellanic Stream (25+15)
9:40-10:00	Zongnan Li	Mapping Outflows in Nearby AGN and Starburst Galaxies (12 min + 8 min)
10:00-10:20	Zesen Lin	AMASE Panoramic Survey Initiative (12 min + 8 min)
10:20-10:40	Tao Jing	AMASE Simulation and Mock Data (12 min + 8 min)
10:40-11:10	Coffee Break	
Session VI:	<b>Chair: Renbin Yan</b>	
11:10-11:40	Cheng Li	AMASE Key Observables, Requirements, and Summary (20+10)
11:40-12:00	Panel Closed-door Discussion	
12:00-12:30	Panel Feedback and Discussion with the Science Team	
12:30-1:30	Lunch on campus	
1:30	Bus departing for CUHK	
2:20-2:50	JC STEM Lab Tour for Review Panel and Executive Committee	
Session VII:	<b>Chair: Yuguang Chen</b>	
3:00-3:30	Steven Hui	Spectrograph design with the custom optics, responses on the issued raised before. (15+15)
3:30-4:00	Qingjiu Chen	Spectrograph opto-mechanics and alignment plan. (15+15)
4:00-4:30	Coffee Break	
Session VIII:	<b>Chair: Renbin Yan</b>	
4:30-5:00	Ruoyu Zhou	0.8m corrector design (15+15)
5:00-5:30	Yutong Qiao	MLA optimization, tolerance stack-up, & alignment plan (15+15)
6:00-8:30	Banquet at Club One Riviera	
8:30	Bus for MTR and JEN Hotel	

#### Thursday, 4 Dec 2025

Time	Speaker	Presentation Title
Session IX:	<b>Chair: Steven Hui</b>	
9:00-9:40	Qingjiu Chen	Fiber Cable Design (10+10) Enclosure Design (10+10)
9:40-10:30	Ruoyu Zhou	Calibration System (10+10) Control System (10+10)
10:30-11:00	Coffee Break	
Session X:	<b>Chair: Hsiao-Wen Chen</b>	
11:00-11:20	Renbin Yan	Project Management and Schedule
11:20-11:40	Panel Closed-door Discussion	
11:40-12:30	Panel Feedback and Discussion with the Group	
12:30-2:00	Lunch	
Session XI:	<b>Chair: Zhijie Qu</b>	
2:00-2:20	Jichen Zhang	Observing Strategy (10+10)
2:20-2:40	Mandy Chen	PSF Characterization and Image Registration (10+10)
2:40-3:20	Zhuo Cheng	Survey Scheduling (20+20)
3:20-3:50	Coffee Break	
Session XII:	<b>Chair: Yifei Jin</b>	
3:50-4:50	Guangquan Zeng	Data Reduction Pipeline (25+25)
4:50-5:10	Yee Ching Lam	Metadata Storage (10+10)
5:10-5:30	Discussion for Day 3	

#### Friday, 5 Dec 2025

Time	Speaker	Presentation Title
Session XIII:	<b>Chair: Xihan Ji</b>	
9:00-9:30	Sabyasachi Chattopadhyay / Renbin Yan	Sky Subtraction (15+15)
9:30-10:00	Renbin Yan	Flux Calibration (15+15)
10:00-10:30	Panel Closed-door Discussion	
10:30-11:00	Coffee Break	
Session XIV:	<b>Chair: Cheng Li</b>	
11:00-12:00	Panel Feedback and Discussion with the Group	
12:00-12:15	Review Meeting Summary	
12:30-1:30	Lunch on campus	
<b>AMASE-P Team Meeting</b>	<b>(Reviewers are welcome to join, but it is optional)</b>	
Session XV:	<b>Chair: Zongnan Li</b>	
2:00-2:30	Cheng Li & Yuguang Chen	Next Step for the Science Team
2:30-3:00	Zhuo Cheng & Jichen Zhang	Observing Strategy & Survey Scheduling
3:00-3:30	Renbin Yan & Sabyasachi	Sky subtraction and flux calibration
3:30-4:00	Coffee Break	
Session XVI:	<b>Chair: Zheng Zheng</b>	
4:00-4:30	Guangquan Zeng & Yee-Ching Lam	Data Reduction Pipeline
4:30-5:00	Buffer Time / End of Meeting	

## Participants

Title	Name - Last	Name - First	Institution	Country/Region	Title/Position	Remark
	Abraham	Roberto	University of Toronto	Canada	Professor	Remote Participation
Prof.	Chan	Tsang Keung	The Chinese University of Hong Kong	Hong Kong, China	Professor	
	Chen	Mandy	Caltech & Carnegie Observatories		Postdoc	
Dr.	CHEN	Qingjiu	The Chinese University of Hong Kong	Hong Kong	Mechanical Engineer	
Prof.	Chen	Hsiao-Wen	The University of Chicago	USA	Professor	
Dr.	Chen	Yanmei	Nanjing University	China	Professor	
	Chen	Yuguang	The Chinese University of Hong Kong	Hong Kong	Research Assistant Professor	
Dr.	Cheng	Zhuo	The Chinese University of Hong Kong	Hong Kong	Postdoc	
Mr.	Chi	Yi-Heng	Nanjing University	China	Postgraduate	
Dr.	Fang	Xuan	NAOC	China	Professor	Remote Participation
Dr.	Herbst	Tom	Max Planck Institute for Astronomy	Germany	Research Group Leader	

<b>Title</b>	<b>Name - Last</b>	<b>Name - First</b>	<b>Institution</b>	<b>Country/Region</b>	<b>Title/Position</b>	<b>Remark</b>
Mr.	Hui	Chit Ho	The Chinese University of Hong Kong	HKSAR	Optical Engineer	
Dr.	Ji	Xihan	University of Cambridge	United Kingdom	Postdoc	
Mr.	Jing	Tao	Tsinghua University	China	Postgraduate	
Dr.	Jin	Yifei	Westlake University	Hong Kong	Postdoc	
	LAM	Yee Ching	The Chinese University of Hong Kong	Hong Kong	Postgraduate	
Dr.	Law	David	STScI		Associate Astronomer	
Prof.	Li	Cheng	Tsinghua University	China	Professor	
Dr.	Li	Zongnan	National Astronomical Observatory of Japan	Japan	Postdoc	
	Lin	Lin	SHAO	China	Associate Researcher	Remote Participation
Dr.	LIN	ZESUN	Zhengzhou University	China	Associate Professor	
Dr.	Liang	Fuheng	Heidelberg University	Germany	Postdoc	Remote Participation
	Matthew	Bershady	University of Wisconsin	USA	Professor	Remote Participation
Mr.	Murray	Graham	Durham University	United Kingdom	Senior Research Fellow	
	Peng	Ziming	The Chinese University of Hong Kong	Hong Kong	Postgraduate	
Mr.	Qiao	Yutong	The Chinese University of Hong Kong	Hong Kong	Postgraduate	
Dr.	Qu	Zhijie	Tsinghua University	China	Assistant Professor	
Prof.	Sabyasachi	Chattopadhyay	University of Hawaii	USA	Assistant Professor	Remote Participation
Prof.	Sanchez	Sebastian F.	Instituto de astronomia - Universidad Nacional Autónoma de Mexico	Mexico	Professor	
Mr.	Smith	Michael	University of Wisconsin	United States	Research Engineer	
	Tremonti	Christy	University of Wisconsin	USA	Professor	Remote Participation
Dr.	Wei	Peng	Xinjiang Astronomical Observatory, Chinese Academy of Sciences	China	Assocoated professor	
	Will	Saunders	Macquarie University	Australia	Instrument Scientist	Remote Participation
Dr.	Wilson	John	University of Virginia	United States	Senior Scientist	
Dr.	Wisnioski	Emily	Australian National University	Australia	Associate Professor	
Mr.	Wong	Wai Kiu Ricky	The Chinese University of Hong Kong	Hong Kong	Postgraduate	

Title	Name - Last	Name - First	Institution	Country/Region	Title/Position	Remark
Prof.	Yan	Renbin	The Chinese University of Hong Kong	Hong Kong, China	Professor	
Ms.	YUE	Shiyu	The Chinese University of Hong Kong	Hong Kong	Postgraduate	
Dr.	Zeng	Guangquan	The Chinese University of Hong Kong	Hong Kong	Postdoc	
Prof.	Zhang	Huanian	Huazhong University of Science and Technology	China	Professor	
Mr.	Zhang	Jichen	The Chinese University of Hong Kong	Hong Kong, China	Student	
Dr.	Zhang	Wei	NAOC	China	Associate Professor	
	Zhang	Yu	Xinjiang Astronomical Observatory	China	Professor	
	Zheng	Zheng	NAOC	China	Dr.	
Dr.	Zhou	Ping	Nanjing University	China	Associate Professor	
Mr.	Zhou	Ruoyu	The Chinese University of Hong Kong	Hong Kong	Postgraduate	

## Local Transportation Information

[Notes on transportation](#)

## Remarks

- **No parking space** is available at the UChicago Hong Kong Campus.
- WiFi will be available for all participants. We will put out the login details at the venue.

## Acknowledgements

Funding for the AMASE-P Project is provided by the Hong Kong Jockey Club Charities Trust through the JC STEM Lab of Astronomical Instrumentation and Jockey Club Spectroscopy Survey System, The Chinese University of Hong Kong, and the National Science Foundation of China.

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