
The 3rd HUBS workshop 2025 Handbook

v20250611a

Website

<https://hubs-mission.cn/workshop2025/>

Venue

Club Med Joyview Beijing Yanqing Hotel

<http://www.clubmedbeijing.cn/>

Check-in Date	June 11 WED	June 12 THU	June 13 FRI	June 14 SAT	June 15 SUN
Price	700 CNY	700 CNY	700 CNY	800 CNY	800 CNY

- Same price for single or double room.
- Executive rooms (68 m² for 1288 CNY/night or 98 m² for 2188 CNY/night) are also available, if needed, please specify your needs when you check-in.
- Pay with one of the following:
 - Wechat or Alipay
 - POS machine for VISA, MASTER card only
 - Cash
- All rooms have been reserved with flexible check-in and check-out dates. Please inform the hotel staff your check-out time when you check-in.
- If child care service provided by the hotel's playground is required, please contact the LOC (hubsworkshop2025@gmail.com) before your arrival.

Getting there

- From Beijing Capital International Airport ([PEK](#))

By taxi, 1.5 hours, ≈ 360 CNY

Reminder: The taxi driver may need the Chinese name of our workshop hotel, i.e. 地中海邻境北京延庆度假村

- From Beijing Daxing International Airport ([PKX](#))

By taxi, 2.5 hours, $\approx$ 560 CNY

- From Beijing South Railway Station

By taxi, 1.7 hours, $\approx$ 380 CNY

- From Beijing West Railway Station

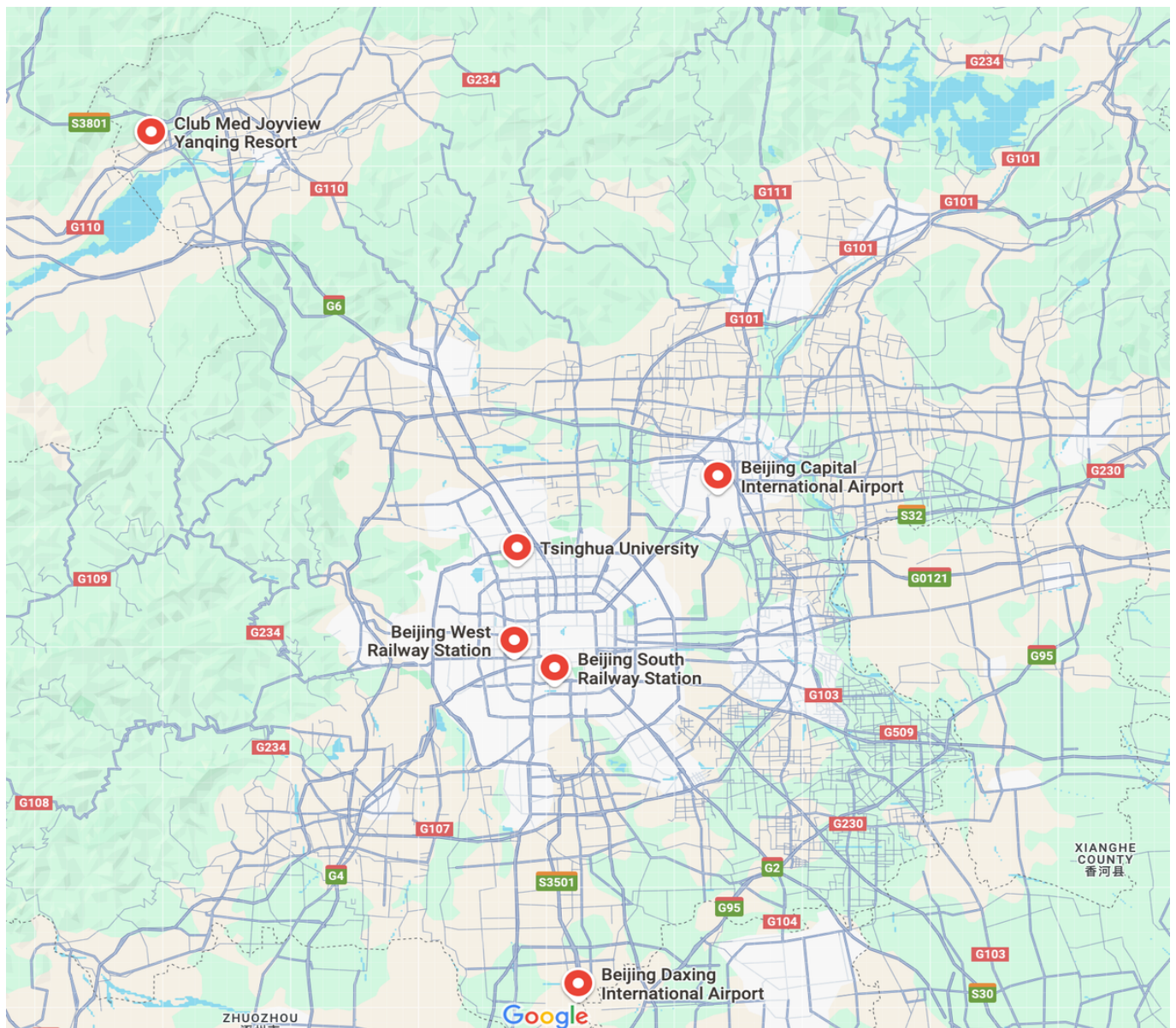
By taxi, 1.5 hours, $\approx$ 360 CNY

- From THU/NAOC/NSSC/BNU or other locations in Beijing

(1) By taxi directly, 1.5 hours, $\approx$ 200 CNY

(2) or By high-speed railway + taxi:

- Get to Qinghe Railway Station by subway/taxi/bus;
- Railway from Qinghe Station to Yanqing Station, 40min, $\approx$ 30 CNY;
- Taxi from Yanqing Station to hotel, 20min, $\approx$ 45 CNY



Registration

Registration fee: 2500 CNY

Scan the QR code below to pay via one of the following channels

- Wechat or Alipay
- POS machine for VISA, MASTER card only
- Cash



The image shows a mobile app interface for Tsinghua University's payment platform. On the left, a purple card displays the HUBS logo, a QR code, and the number No.202347-001. On the right, a form titled '清华大学资金结算服务平台' (Tsinghua University Payment of utilities and services) contains the following fields:

- 收款单位: 天文系
- 付款用途: 第三届HUBS国际研讨会 (2025) 注册费
- 付款金额: 2500.0 元
- 校园卡号: 选填
- 备注: 选填
- 是否开票: 不开票 (selected) / 开票
- 发票类型: 个人 (selected) / 单位
- 抬头名称: 抬头名称
- 税号: 18位
- 手机号码: 手机号码 (11位)
- 邮箱: @

A green button labeled '微信支付' (WeChat Pay) is at the bottom. A small text at the bottom right says '保存整页为图片 >'. The footer of the app shows 'Copyright © 2013-2025 清华大学版权所有'.

重要提醒：请在备注姓名，填写抬头、税号、手机号和邮箱！发票将发送到所填写的邮箱。

For international participants, our LOC members will assist you at the registration desk to pay for the registration fee.

Program

June 11 (WED)		
15:00 - 21:00	Arrival & Registration	
18:00 - 20:00	Dinner	
June 12 (THU)		
8:45 - 9:00	Feng Yuan (Fudan Univ.)	Opening remarks
Chair: Taotao Fang		
9:00 - 9:25	Junjie Mao (Tsinghua Univ.)	HUBS status
9:25 - 9:50	Feng Yuan (Fudan Univ.)	AGN feedback in a disk galaxy
9:50 - 10:15	Jiangtao Li (PMO)	Hot Circum-Galactic Medium (CGM) around Nearby Galaxies
10:15 - 10:30	Zhongli Zhang (SHAO)	A forecast of scientific outcomes from HUBS deep field survey
10:30 - 10:55	Coffee & Tea break	
Chair: Norbert Werner		
10:55 - 11:20	Fabrizio Nicastro (INAF-OAR)	25 Years of Hunting for the Universe Missing Baryons in the WHIM and Future Prospects with HUBS and NewAthena
11:45 - 12:00	Xiaoyuan Zhang (MPE)	eROSITA view of the WHIM emission in cosmic filaments
12:00 - 12:15	Yuanyuan Zhao (SJTU)	A forecast for HUBS observations of the cosmic filaments
12:15 - 14:00	Lunch	
Chair: Bing Zhang		
14:00 - 14:25	Norbert Werner (Masaryk Univ.)	Chemical enrichment and radio-mechanical AGN feedback in massive galaxies, groups, and clusters of galaxies
14:25 - 14:50	Taotao Fang (Xiamen	Probing Hot Gas in Small Galaxy Groups and

	Univ.)	Merging Galaxies (tentative talk title)
14:50 - 15:05	Aoyun He (SHAO)	The AGN wind-jet coupling solves the cooling flow problem
15:05 - 15:20	Weiwei Xu (NAOC)	The detection and research of X-ray extended clusters
15:20 - 15:35	Jean-Paul Breuer (Hiroshima Univ.)	The thermodynamic structure and large-scale structure filament in MACSJ0717.5+3745
15:35 - 16:00	Coffee & Tea break	
Chair: Gabriele Ponti		
16:00 - 16:25	Daisuke Nagai (Yale Univ.)	Harnessing CAMELS: A Strategic Approach to Precision Cosmology and Galaxy Astrophysics
16:25 - 16:50	Dandan Xu (Tsinghua Univ.)	X-ray sciences in galaxies and clusters -- a simulation perspective
16:50 - 17:15	Hui Li (Tsinghua Univ.)	Superbubbles: connecting small-scale star-forming regions and large-scale galactic winds
17:15 - 17:30	Lin He (Nanjing Univ.)	Discovery of giant bubbles in the hot gaseous halo of the massive disk galaxy NGC 6286
17:30 - 17:45	Jeremy Sanders (MPE)	Bulk flows of the intracluster medium (remote)
17:45 - 18:00	Ruiyu Zhang (Henan Normal Univ.)	Simulation of the eROSITA and Fermi bubbles in X-ray band
18:00 - 19:30	Dinner	

June 13 (FRI)		
Chair: Feng Yuan		
9:00 - 9:25	Gabriele Ponti (INAF-OAB/MPE)	The hot phase of the Milky Way and of Milky Way-like galaxies
9:25 - 9:50	Suoqing Ji (Fudan Univ.)	Implications from AGN feedback simulations
9:50 - 10:15	Liyi Gu (SRON)	Lessons learned from XRISM and their relevance to HUBS

10:15 - 10:30	Meicun Hou (Nanjing Univ.)	eROSITA Survey of Diffuse Hot Gas around Member Galaxies in Virgo
10:30 - 10:55	Coffee & Tea break	
Chair: Zigao Dai		
10:55 - 11:20	Makoto Tashiro (Saitama Univ.)	Status of XRISM
11:20 - 11:45	Junfeng Wang (Xiamen Univ.)	X-ray Anatomy of Star Formation and AGN Feedback in Galactic Ecosystems
11:45 - 12:00	Johan Comparat (MPE)	The cross-correlation between soft X-rays and galaxies, a new benchmark for galaxy evolution models
12:00 - 14:00	Lunch	
Chair: Fabrizio Nicastro		
14:00 - 14:25	Zigao Dai (USTC)	The physics of fast X-ray transients and afterglows
14:25 - 14:50	Bing Zhang (HKU)	High-resolution X-ray spectroscopy in transient science
14:50 - 15:15	Xinwen Shu (Anhui Normal Univ.)	Slicing the outflow: tidal disruption events with high-resolution X-ray spectroscopy
15:05 - 15:20	Zheng Zhou (Xiamen Univ.)	Probing the distribution of hot circumgalactic medium in the Milky Way and M31
15:20 - 15:35	Adriana Pires (CLPS)	Probing the Atmospheres of Isolated Neutron Stars with HUBS
15:35 - 16:00	Coffee & Tea break	
Chair: Daisuke Nagai		
16:00 - 16:25	Ping Zhou (Nanjing Univ.)	Supernova remnant research with HUBS
16:25 - 16:50	Congyao Zhang (Masaryk Univ.)	Galaxy Cluster Studies in the Era of High-resolution X-ray Spectroscopy
16:50 - 17:05	Heng Yu (Beijing Normal Univ.)	Galaxy Cluster Observations with EP-FXT
17:05 - 17:20	Zhixiao Lyu (SJTU)	Combining broadband photometric analysis and

		RGS high-resolution X-ray spectroscopy to investigate the interaction between BCG and ICM
17:20 - 17:35	Dan Hu (Masaryk Univ.)	MeerKAT discovery of gigahertz radio emission extending from Abell 3017 towards Abell 3016
17:35 - 17:50	Xueying Zheng (MPE)	eROSITA narrowband maps at the energies of soft X-ray emission lines
17:50 - 18:05	Michael Yeung (MPE)	Observing the local ISM with X-ray eyes
18:05 - 19:30	Dinner	

June 14 (SAT)		
Chair: Haiguang Xu		
9:00 - 9:25	Marat Gilfanov (MPA/IKI)	SRG/eROSITA all-sky survey: results on the Eastern Galactic hemisphere
9:25 - 9:50	Yi Zhang (MPE)	The Hot Circumgalactic Medium in the eROSITA All-Sky Survey
9:50 - 10:05	Nicola Locatelli (INAF)	The hot gas phase of the Milky Way as seen by eROSITA
10:05 - 10:20	Yu Qiu (ZJU)	Probing the Global Impact of Radio Jet Feedback in Cosmological Simulations
10:20 - 10:45	Coffee & Tea break	
Chair: Makoto Tashiro		
10:45 - 11:10	Zhiyuan Li (Nanjing Univ.)	X-raying the halo of nearby (sub-)L* galaxies
11:10 - 11:35	Junjie Mao (Tsinghua Univ.)	XRISM/Resolve view of Cen A
11:35 - 11:50	Yijun Wang (Nanjing Univ.)	Measuring density profile of ambient circumnuclear medium in AGN through high-resolution X-ray spectra
11:50 - 12:05	Heshou Zhang (INAF-OAB)	Non-thermal emissions from the Galactic magnetized halo powered by Galactic outflows
12:05 - 14:00	Lunch	

13:30 - 17:30	Parallel group discussion
18:00 - 19:30	Banquet

June 15 (SUN)		
Chair: Li Ji		
9:00 - 9:25	Haiguang Xu (SJTU)	Multi-phase gas in cluster central regions
9:25 - 9:40	Shui-Nai Zhang (PMO)	Superwind feedback in the starburst galaxy M83
9:40 - 9:55	Martin Mayer (Remeis Observatory)	X-raying the multi-phase interstellar medium of the Large Magellanic Cloud with eROSITA
9:55 - 10:10	Lei Sun (Nanjing Univ.)	High-resolution X-ray spectroscopic study of SN 1987A and its implications to HUBS
10:10 - 10:25	Konrad Denzel (MPE)	Studying the heliospheric component of the soft diffuse X-ray emission with SRG/eROSITA
10:25 -10:45	Coffee & Tea break	
Chair: Guiyun Liang		
10:45 - 11:10	Ruitian Zhang (IMP)	Laboratory measurement for charge exchange between highly charged ions and neutrals
11:10 - 11:35	Zhijie Qu (Tsinghua Univ.)	Multi-Wavelength View of the Milky Way CGM
11:35 - 11:50	Zhaosheng Li (Xiangtan Univ.)	Absorption and emission lines in thermonuclear X-ray bursts
11:50 - 12:00	Wei Cui (Tsinghua Univ.)	Concluding remarks
12:00 - 14:00	Lunch	
14:00 - 17:00	Departure	

Participants List

Adriana Pires		CLPS, AIP
Ang Liu	刘昂	Beijing Normal University
Aoyun He	贺奥运	SHAO
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Dan Hu	胡丹	Masaryk University
Dandan Xu	许丹丹	Tsinghua University
Donghua Zhao	赵冬华	NAOC
Fabrizio Nicastro		INAF-OAR
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Hui Li	李辉	Tsinghua University
Jean-Paul Breuer		Hiroshima University
Jian Ma	马健	Tsinghua University
Jiangtao Li	李江涛	PMO, University of Michigan
Jiayi Chen	陈佳怡	Tsinghua University
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Marat Gilfanov		MPA, IKI
Martin Mayer		ROB
Meicun Hou	侯美存	Nanjing University
Michael Yeung	楊鎮熙	MPE
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Norbert Werner		Masaryk University
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Ruixuan Tian	田睿轩	Tsinghua University
Ruiyu Zhang	张瑞玉	Henan Normal University
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Yi Zhang	张艺	MPE
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Yijun Wang	王倚君	Nanjing University
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