NUQS-2026

Summer School & International Conference on
Nonequilibrium and Ultrafast Quantum States

CONFERENCE HANDBOOK

October 26–30, 2026
Hangzhou, China



NUQS-2026

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CONFERENCE INFORMATION

Welcome to the Summer School & International Conference on Nonequilibrium and Ultrafast Quantum States (NUQS-2026). The conference takes place in Beijing and Hangzhou. This handbook provides the program and practical information for the Hangzhou sessions.

If you have any questions, please contact the conference team for assistance. Thank you!

Conference Dates
October 26–30, 2026

Venue
Room C101, Building 5
Tsientang Institute for Advanced Study (TIAS)
Hangzhou, China

Registration
October 25 | 15:30–20:00
Lobby, Geyuan Hotel
Participants may check in and collect their conference materials.
October 26 | 08:00–09:00
Main entrance, Tsientang Institute for Advanced Study (TIAS)
Additional registration will be available

Welcome Dinner
October 25 | 18:00
Geyuan Restaurant
All participants are warmly invited to join the welcome dinner.

Accommodation
Hangzhou Yunqi Geyuan Resort Hotel
Address: No. 99 Yebuqiao Road, Zhuantang Subdistrict, Hangzhou
To TIAS: Approximately 9 minutes on foot
Tel：0571-88886636
Club Med Urban Oasis Hangzhou Longwu
Address: No. 200 Caiqing Road, Xihu District, Hangzhou
To TIAS: Approximately 9 minutes on foot
Tel：0571-5669 6666

CONFERENCE INFORMATION

Dining

Please use your meal tickets for meals at the campus cafeteria during the conference. Refer to the campus map for the cafeteria's location.

Contact Us

Registration Contacts
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Tel：+86 15005260599
Chang Xu
Email: cxu@tias.ac.cn
Tel：+86 17749543469

Conference Contacts
Lede Xian
Email: ldxian@tias.ac.cn
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Tel：+86 13046077177

THINGS TO KNOW

1. Please wear your conference badge during the event and present it when entering the campus.

2. Campus tours will take place on October 26–28, from 13:00 to 14:00, with three parallel tour groups each day.

Groups are identified by lanyard color:

Group A: Purple

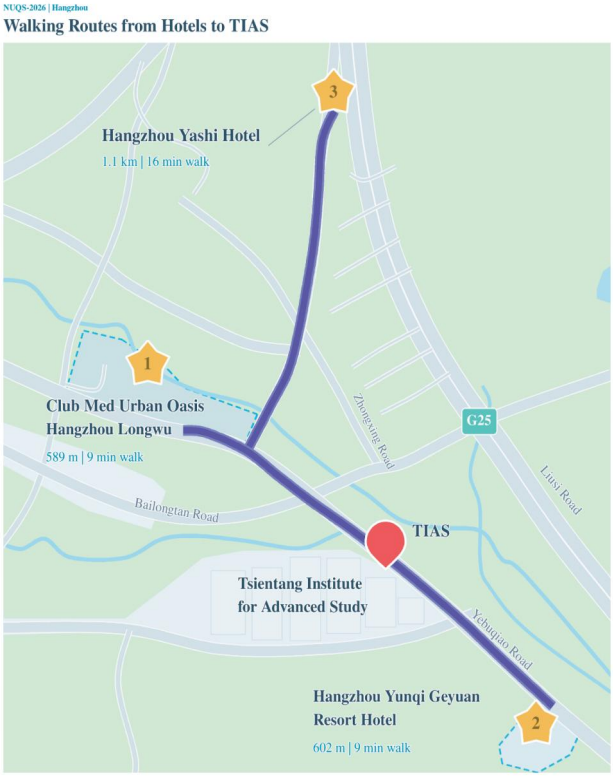
Group B: Red

Group C: Cyan

Please check your lanyard color and meet in Room C101, Building 5, at 12:55 on these three days.

3. For lunch and dinner, please tear off the meal tickets from the back of your conference badge and present them at the campus cafeteria. The campus cafeteria is located on Floors 1 and 2.

4. All conference talks will take place in Room C101.





Longwu Campus Overview

HOST INSTITUTIONS AND CONFERENCE COMMITTEE

HOST INSTITUTIONS

INSTITUTE OF PHYSICS, CAS

MAX PLANCK INSTITUTE FOR THE STRUCTURE AND DYNAMICS OF MATTER

SONGSHAN LAKE MATERIALS LABORATORY

TSIENTANG INSTITUTE FOR ADVANCED STUDY

CONFERENCE ADVISORS



Lu Yu

Institute of Physics
CAS



Enge Wang

Institute of Physics
CAS



Tao Xiang

Institute of Physics
CAS



Zhong Fang

Institute of Physics
CAS



Angel Rubio

Max Planck Institute
for the Structure and
Dynamics of Matter

HOST INSTITUTIONS AND CONFERENCE COMMITTEE

LOCAL ORGANIZING COMMITTEE


Sheng Meng/ IOP


Yuan Wan/ IOP

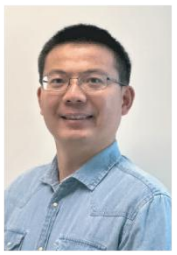

Jimin Zhao/ IOP


Yuxiang Weng/ IOP


Zhaohua Cheng/ IOP


Jianqi Li/ IOP


Peng Ye/ IOP/ SLAB


Pengju Zhang/ IOP/ SLAB


Feifan Wang/ IOP/ SLAB


Chao Lian/ IOP/ SLAB


Jiyu Xu/ IOP/ SLAB


Wei Lu/ SLAB


Faran Zhou/ IOP


Yaxian Wang/ IOP


Sijie Zhang/ IOP


Shuo Dong/ IOP


Cui Zhang/ IOP


Lede Xian/ TIAS

CONFERENCE PROGRAM

SUMMER SCHOOL IN HANGZHOU

OCTOBER 26, 2026 (MONDAY) BUILDING 5 MEETING ROOM C101, TIAS CAMPUS

Time	Speaker	Talk
Chair: Enge Wang		
8:30-8:45	**Dongmin Chen（陈东敏）** Tsientang Institute for Advanced Study & Tsientang Materials Laboratory	Opening Ceremony
8:45-9:30	**Angel Rubio** Max Planck Institute for the Structure and Dynamics of Matter	Cavity Materials Engineering: Controlling Quantum Matter with Vacuum Fluctuations, from First Principles
9:30-10:15	**Kehui Wu（吴克辉）** Tsientang Institute for Advanced Study	Colossal reversible conductivity switching by room-temperature oxygen-vacancy ordering in Aurivillius oxide films
10:15-10:45	**Break & Group Photo**	
Chair: Angel Rubio		
10:45-11:30	**Jianxin Zhong（钟建新）** Shanghai University	Ultrafast Quantum Oscillations Beyond the Bloch Oscillation in Low-dimensional Coupled Systems
11:30-12:15	**Hardy Gross** Tsientang Institute for Advanced Study	Time-dependent density functional theory, from basic theorems to laser-driven spin dynamics, to the atomic water wheel
12:15-13:00	**Lunch**	
13:00-14:00	**Lab Tour/ Exhibition: Campus Design Models & Videos/YST Research Center Group activities; please follow your lanyard group assignment.**	
Chair: Kehui Wu		
14:00-14:45	**Hong Ding（丁洪）** Shanghai Jiao Tong University	More is different: the beauty of multiband in iron-based superconductors
14:45-15:30	**Yanwei Liu（刘彦巍）** Tsientang Institute for Advanced Study	Optics for Attosecond Pulses
15:30-16:15	**Michael Ruggenthaler** Max Planck Institute for the Structure and Dynamics of Matter	Quantum electrodynamics and endyonic physics
16:15-16:35	**Break**	
Chair: Fabio Caruso		
16:35-17:20	**Xiao Hu（胡晓）** Shanghai University	Phase dynamics in dc-biased high-Tc cuprate superconductor and THz EM radiation
17:20-18:05	**Hui Li（李辉）** Beijing Normal University	Multiscale Nonequilibrium Transport in Living Matter
18:10	**Dinner**	

CONFERENCE PROGRAM

SUMMER SCHOOL IN HANGZHOU

OCTOBER 27, 2026 (TUESDAY) BUILDING 5 MEETING ROOM C101, TIAS CAMPUS

Time	Speaker	Talk
Chair: Yanwei Liu		
8:30-9:15	**Suhuai Wei（魏苏淮）** Eastern Institute of Technology, Ningbo	Design Transparent Conducting Materials By Band Structure Engineering
9:15-10:00	**Zhiwen Shi（史志文）** Shanghai Jiao Tong University	Low-dimensional Carbon Materials for High-performance Nanoelectronics
10:00-10:20	**Break**	
Chair: Dongbin Shin		
10:20-11:05	**Fabio Caruso** University of Rostock	Electron-phonon interactions in the time domain: from quasiparticle dynamics to light-induced phase transitions
11:05-11:50	**Jianhao Chen（陈剑豪）** Peking University	The topology and correlation effects in natural van der Waals heterostructures
12:00-13:00	**Lunch**	
13:00-14:00	**Lab Tour/ Exhibition: Campus Design Models & Videos/YST Research Center Group activities; please follow your lanyard group assignment.**	
Chair: Simone Latini		
14:00-14:45	**Changgan Zeng（曾长淦）** University of Science and Technology of China	Vacuum-enhanced superconductivity
14:45-15:30	**Dongbin Shin** Gwangju Institute of Science and Technology	Photon field-induced topological phase transition via symmetry breaking
15:30-16:15	**Shuang Jia（贾爽）** Peking University	Giant Anomalous Hall and Nernst Effects in Ferromagnetic Heavy Fermions
16:15-16:35	**Break**	
Chair: Wuming Liu		
16:35-17:20	**Wenguang Zhu（朱文光）** University of Science and Technology of China	Bulk Photovoltaic Effects in Two-Dimensional Materials
17:20-18:05	**Limei Xu（徐莉梅）** Peking University	Nonclassical pathway of Odering
18:05-18:30	**Jiawei Ruan（阮佳伟）** Eastern Institute of Technology, Ningbo	Floquet Altermagnets: Tailoring Spin Splitting with Light
18:30	**Dinner**	

CONFERENCE PROGRAM

SUMMER SCHOOL IN HANGZHOU

OCTOBER 28, 2026 (WEDNESDAY) BUILDING 5 MEETING ROOM C101, TIAS CAMPUS

Time	Speaker	Talk
Chair: Jin Zhao		
8:30-9:15	**Shiwu Gao（高世武）** Beijing Computational Science Research Center	Quantum hot carrier spectra in plasmonic catalysis
9:15-10:00	**Jianxin Li（李建新）** Nanjing University	Mott physics, fractional and topological spin excitations in strongly correlated systems
10:00-10:20	**Break**	
Chair: Noejung Park		
10:20-11:05	**Xi Lin（林熙）** Peking University	Zero-Field Thermal Hall Effect in Insulator
11:05-11:50	**Jin Zhao（赵瑾）** University of Science and Technology of China	Non-equilibrium Exciton Dynamics in Solids: A First-Principles Perspective
12:00-13:00	**Lunch**	
13:00-14:00	**Lab Tour/ Exhibition: Campus Design Models & Videos/YST Research Center Group activities; please follow your lanyard group assignment.**	
Chair: Lede Xian		
14:00-14:45	**Dante Kennes** RWTH Aachen University & Max Planck Institute for the Structure and Dynamics of Matter	Moiré superlattices provide a versatile platform for exploring nonequilibrium quantum dynamics of strongly interacting excitons
14:45-15:30	**Lei Wang（王雷）** Nanjing University	Exotic correlated phases in Van der Waals heterostructures
15:30-16:15	**Lei Liu（刘磊）** Peking University	2D Amorphous Materials and Devices
16:15-16:35	**Break**	
Chair: Dante Kennes		
16:35-17:20	**Jinxin Hu（胡金鑫）** Tsientang Institute for Advanced Study	Moiré engineering of topological phase of matter
17:20-17:45	**Lanting Shi（师兰婷）** Tsientang Institute for Advanced Study	Cavity Control of Charge-Density-Wave Order and Superconductivity in the Kagome Metal CsV_3Sb_5
17:45-18:30	**Ji Chen（陈基）** Peking University	Electronic Structure Calculation using Neural Network Wavefunction
18:30	**Dinner**	

CONFERENCE PROGRAM

SUMMER SCHOOL IN HANGZHOU

OCTOBER 29, 2026 (THURSDAY) DISCUSSION IN HANGZHOU

Time	Discussion
9:00-12:00	Free Discussion
12:00-14:00	**Lunch**
14:00-18:00	Free Discussion
18:00	**Dinner**

SUMMER SCHOOL IN HANGZHOU

OCTOBER 30, 2026 (FRIDAY) BUILDING 5 MEETING ROOM C101, TIAS CAMPUS

Time	Speaker	Talk
Chair: Hardy Gross		
8:30-9:15	**Xingao Gong（龚新高）** Fudan University	AI Physics: making the impossible computable
9:15-10:00	**Noejung Park** Ulsan National Institute of Science and Technology	Spin-Orbit dynamics and Topological Quantum Charge Pumping: First-Principles Real-time TDDFT Study
10:00-10:20	**Break**	
Chair: Michael Ruggenthaler		
10:20-11:05	**Congjun Wu（吴从军）** Westlake University	Space-time crystallography and dynamical phenomena
11:05-11:50	**Xiaoli Huang（黄晓丽）** Jilin University	Superconductivity Under Pressure: The Promise of Hydrides
11:50-14:00	**Lunch**	

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TSIENTANG INSTITUTE FOR ADVANCED STUDY