



復旦大學
FUDAN UNIVERSITY

2025 International Summer School of Fudan University: Statistical Physics

August 4 - 17, 2025

Fudan University, Shanghai, China

Sponsor *Fudan University Graduate School*

Organizer *Department of Physics, Fudan University*

Co-organizer *College of Science, University of Shanghai for Science and Technology*



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Hong Kong University of Science and Technology, China

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Institute of theoretical physics, CAS, China

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Walter Kob *University of Montpellier, France*

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Ran Ni 倪冉 *Nanyang Technological University, Singapore*

Itamar Procaccia *Weizmann Institute of Science, Israel*

Paddy Royall *ESPCI Paris, France*

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University of Science and Technology of China, China

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Nuo Chen 陈诺 *Fudan University, China*

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Wantong Jiang 江宛彤 *Fudan University, China*

Zhixin Li 李沁昕 *Fudan University, China*

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Yixi Wang 王译希 *Fudan University, China*

Acknowledgement

Ministry of Education (MOE) of China "National Plan for Cultivating Top-Tier Students in Basic Disciplines"

Chinese Scholarship Council (CSC) "International Summer School Program of CSC"

National Natural Science Foundation of China Nos. 12035004, 12320101004 and 12425503

Innovation Program of Shanghai Municipal Education Commission No. 2023ZKZD06

Shanghai Pilot Program for Basic Research-FuDan University No. 22TQ003

Invited Lecturers

In chronological order of lectures



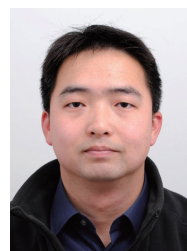
Walter Kob
University of Montpellier,
France



Hajime Tanaka
University of Tokyo, Japan



Kunimasa Miyazaki
Nagoya University, Japan



Ran Ni 倪冉
Nanyang Technological
University, Singapore



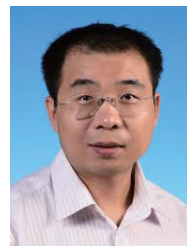
Yujie Wang 王宇杰
Chengdu University of
Technology, China



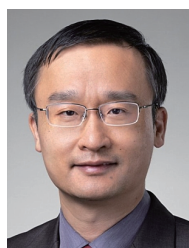
Ning Xu 徐宁
University of Science and
Technology of China, China



Paddy Royall
ESPCI Paris, France



Yilong Han 韩一龙
Hong Kong University of
Science and Technology, China



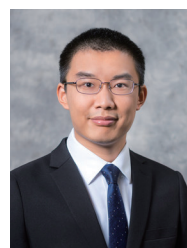
Lei Xu 徐磊
Chinese University of
Hong Kong, China



John Russo
Sapienza University of
Rome, Italy



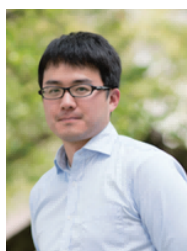
Limei Xu 徐莉梅
Peking University, China



Ge Zhang 张格
City University of
Hong Kong, China



Yuliang Jin 金瑜亮
Institute of Theoretical
Physics, CAS, China



Garuda Fujii
Shinshu University, Japan



Guoqiang Xu 许国强
Southeast University, China



Yi-Cheng Zhang 张翼成
University of Fribourg,
Switzerland



Itamar Procaccia
Weizmann Institute
of Science, Israel



Muamer Kadic
University of Franche-Comté, Zhejiang University, China
France



Ying Li 李鹰

Agenda

Module 1: Statistical Physics and Soft Matter

Chairman | Peng Tan 谭鹏, Fudan University

Aug. 4 (Mon.) Theory of glass transition

8:30 - 9:00		opening
9:00 - 9:40	Walter Kob	invited talk
9:50 - 10:30	Hajime Tanaka	
11:00 - 12:00		course
14:00 - 17:00	Walter Kob	

Aug. 5 (Tue.) Hyperuniform fluid and solid

9:00 - 9:40	Kunimasa Miyazaki	invited talk
9:50 - 10:30	Ran Ni 倪冉	
11:00 - 12:00		course
14:00 - 17:00	Ran Ni 倪冉	

Aug. 6 (Wed.) Jamming of amorphous matter

9:00 - 9:40	Yujie Wang 王宇杰	invited talk
9:50 - 10:30	Ning Xu 徐宁	
11:00 - 12:00		course
14:00 - 17:00	Kunimasa Miyazaki	

Aug. 7 (Thu.) Colloidal physics

9:00 - 9:40	Paddy Royall	invited talk
9:50 - 10:30	Yilong Han 韩一龙	
11:00 - 12:00		course
14:00 - 17:00	Paddy Royall	

Aug. 8 (Fri.) Crystal nucleation and growth

9:00 - 9:40	Lei Xu 徐磊	invited talk
9:50 - 10:30	John Russo	
10:40 - 11:20	Limei Xu 徐莉梅	
13:30 - 17:00	John Russo	course

Aug. 9 (Sat.) AI-based statistical method

9:00 - 9:40	Ge Zhang 张格	invited talk
9:50 - 10:30	Yuliang Jin 金瑜亮	
11:00 - 12:00		course
14:00 - 17:00	Ge Zhang 张格	

Aug. 10 (Sun.)

rest day

Agenda

Module 2: Statistical Physics and Thermal Metamaterials

Chairman | Jiping Huang 黄吉平, Fudan University

Aug. 11 (Mon.)

10:30 - 10:45	opening
10:45 - 11:30	Garuda Fujii
14:00 - 15:30	Guoqiang Xu 许国强
15:45 - 16:30	Garuda Fujii

Aug. 12 (Tue.)

9:00 - 10:30	Guoqiang Xu 许国强
10:45 - 11:30	Garuda Fujii
14:00 - 15:30	Guoqiang Xu 许国强
15:45 - 16:30	Garuda Fujii

Aug. 13 (Wed.)

9:00 - 11:30	Yi-Cheng Zhang 张翼成
14:00 - 16:30	

Aug. 14 (Thu.)

9:00 - 11:30	Itamar Procaccia
14:00 - 16:30	

Aug. 15 (Fri.)

9:00 - 11:30	Muamer Kadic
14:00 - 16:30	

Aug. 16 (Sat.)

9:00 - 11:30	Ying Li 李鹰
14:00 - 15:30	
15:30 - 15:45	closing

Aug. 17 (Sun.)

rest day

Titles of Lectures

Garuda Fujii	Topology Optimization for Thermal Engineering: From Fundamentals to Applications
Guoqiang Xu 许国强	Topological Transport and Moire Transition
Yi-Cheng Zhang 张翼成	The Second Half of AI: Empowering Individuals -- the Application Prospects of Personal Assistants (PA) from a Perspective of Physics
Itamar Procaccia	The Physics of Amorphous Solids
Muamer Kadic	Thermal Metamaterials
Ying Li 李鹰	Heat Manipulation Based on Symmetry Considerations

Contact

Website : <https://iss-phys.fudan.edu.cn>

Email : ISSF2025@outlook.com

Location : Room C108, Physics Building, Jiangwan Campus, Fudan University
2005 Songhu Road, Shanghai, China

Location



Physics Building 物理楼 | 2005 Songhu Road, Shanghai 上海市杨浦区淞沪路2005号

- **Subway:** Line 10, Guofan Road Station 地铁10号线国帆路站 (近复旦大学2号门)

Fengjing Hotel 枫憬酒店 | 6th Floor, 1488 Yinhang Road, Shanghai 新江湾城街道殷行路1488号6楼

- **Subway:** Line 10, Xinjiangwancheng Station 地铁10号线新江湾城站 (近复旦大学3号门)

Traffic

From Pudong Airport 浦东机场

- **Subway:** Line 2 (Nanjing East Road St.) to Line 10, 地铁2号线(南京东路站)转10号线
- **Airport Bus:** Airport Bus Line 4 to Subway Line 10, 机场大巴四线(五角场站)转地铁10号线

From Hongqiao Airport 虹桥机场

- **Subway:** Line 10, 地铁10号线

From Hongqiao Railway Station 虹桥火车站

- **Subway:** Line 10, 地铁10号线

From Shanghai Railway Station 上海火车站

- **Subway:** Line 4 (Linping Road St.) to Line 10, 地铁4号线(临平路站)转10号线

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