



WORKSHOP ON NONLINEAR PDEs IN FLUID MECHANICS II

OCTOBER 21–24, 2026

Scientific program: October 22–23 ▪ N202, South Building, AMSS, Beijing

Fluid mechanics ▪ Kinetic theory ▪ Control theory ▪ Regularity and flexibility

INVITED SPEAKERS & PROGRAM

Beijing Time (UTC+8) ▪ 60-minute talks, including questions

OCTOBER 22

THURSDAY

08:50–09:00 Welcome and Opening Remarks

Dongfen Bian 09:00

Beijing Institute of Technology

Time dependent Prandtl Ansatz always fails in Sobolev spaces

Chair: Quoc-Hung Nguyen

10:00–10:30 Coffee break

Yuzhe Zhu 10:30

The Chinese University of Hong Kong, Shenzhen

Uniform Estimates for the Landau–Fermi–Dirac Equation

Chair: Zhilong Xue

Hui Chen 11:30

Zhejiang University of Science and Technology

Maximal Regularity and Caloric Trace Estimates in Mixed Lebesgue Norms for the Heat Equation

Chair: Zhilong Xue

12:30–14:00 Buffet lunch at Wuke Hotel Restaurant

Chao Wang 14:00

Peking University

Local Well-Posedness for Compressible Water Waves with Acute Contact Angles

Chair: Quoc-Hung Nguyen

15:00–15:30 Coffee break

Wentao Cao 15:30

Capital Normal University

Climbing the $1/3$ Ladder in the Euler Equations and Isometric Embeddings

Chair: Hui Chen

Trinh Nguyen 16:30

Shanghai Jiao Tong University

Global-in-Time Inviscid Limit of the Navier–Stokes Equations for Vortex–Wave Data

Chair: Zhilong Xue

17:30 End of Scientific Program

Evening (time TBA): Conference dinner
Wuke Hotel Restaurant

OCTOBER 23

FRIDAY

Hoai-Minh Nguyen 09:00

Sorbonne University

Controllability of Hyperbolic Systems

Chair: Quoc-Hung Nguyen

10:00–10:30 Coffee break

Yacine Chitour 10:30

Université Paris-Saclay

Necessary and Sufficient Conditions for Exact Controllability of Linear Hyperbolic Systems in L^r Spaces, $r \in [1, \infty)$

Chair: Zhilong Xue

Wei-Xi Li 11:30

Wuhan University

Local Well-Posedness for the Boltzmann Equation with Hard Potentials

Chair: Yuzhe Zhu

12:30–14:00 Buffet lunch at Wuke Hotel Restaurant

Jiang Xu 14:00

Nanjing University of Aeronautics and Astronautics

The Boltzmann Equation in the Homogeneous Critical Regularity Framework

Chair: Quoc-Hung Nguyen

15:00–15:30 Coffee break

Rui Jin 15:30

Shanghai Jiao Tong University

Nonuniqueness for the SQG Equation with an $L^{4/3+}$ Active Scalar

Chair: Zhilong Xue

16:30 End of Scientific Program

PRACTICAL INFORMATION

October 21: arrival. October 24: departure.

Buffet lunches (October 22–23) and conference dinner (October 22 evening): Wuke Hotel Restaurant.

Organizers: Quoc-Hung Nguyen and Zhilong Xue

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CONFERENCE WEBPAGE