

# Announcement for the 2026 Peking University Summer School on Frontiers in Ab Initio Quantum Molecular Dynamics

Jointly organized by the Institute of Theoretical and Computational Chemistry at the College of Chemistry and Molecular Engineering, Peking University, and the Centre Européen de Calcul Atomique et Moléculaire (CECAM) Beijing Node, the 2026 Summer School on Frontiers in Ab Initio Quantum Molecular Dynamics will be held at Peking University from July 25 to 29, 2026.

With the rapid development of quantum dynamics and electronic structure theory, the accurate simulation of nuclear quantum effects and complex nonadiabatic dynamics has become a major frontier in chemistry, biology, and materials sciences. This summer school will bring together approximately 40 renowned experts from both China and abroad, integrating academic strengths in electronic structure, quantum dynamics, statistical mechanics, AI-assisted computational chemistry, and high-performance software development. It will feature specialized lectures on cutting-edge topics such as nuclear quantum effects, nonadiabatic dynamics, and AI for Science, combined with hands-on practice, fostering talent and collaborative innovation in the field of quantum dynamics and statistical mechanics. We cordially invite outstanding domestic and international students and early-career researchers to participate!

## I. Basic Information

### Organizers:

**Jian Liu** (Peking University)

**Eberhard K. U. Gross** (Hebrew University of Jerusalem; Tsientang Institute for Advanced Study)

**Daniel Escudero** (KU Leuven)

### Dates:

July 25–29, 2026

### Venue:

Xiao Lun Lecture Hall, College of Chemistry and Molecular Engineering, Peking University

(No. 292 Chengfu Road, Haidian District, Beijing, China)

**Conference Website:** <https://indico.pku.edu.cn/event/51/>

## II. Schedule and Program

July 24: On-site check-in (afternoon) and Welcome Reception (evening).

July 25 – 29:

08:30-16:40: Invited lectures;

17:00-18:00: Hands-on sessions.

### III. Admission Information

**Admission Policy:** To ensure the quality of lectures and academic exchanges, admission will be based on an application-review admission process. The total number of participants shall not exceed 120.

**Basic Requirements:** Graduate students, third- and fourth-year undergraduate students, and early-career researchers are all eligible to apply. Applicants are expected to have an academic or research background in a relevant discipline.

**Teaching Language:** English

### IV. Fees

The registration fee includes conference materials, lunches, and coffee breaks. Participants are responsible for their own travel and accommodation expenses.

Participant Category	Early Bird Fee: Application by May 10, 2026 at 08:00 AM (Beijing time, UTC+8)	Standard Fee: Application during May 10, 2026 at 08:00 AM - June 1, 2026 at 08:00 AM (Beijing time, UTC+8)
Invited Speaker or Session Chair	0	0
Regular Researcher & Postdoc	US\$ 550 / RMB¥ 3700	US\$ 600 / RMB¥ 4000
Undergraduate & Graduate Student	US\$ 450 / RMB¥ 3000	US\$ 500 / RMB¥ 3300
Accompanying Person	US\$ 150 / RMB¥ 1000	US\$ 150 / RMB¥ 1000

**Refund Policy:** Full refund is available for requests submitted on or before June 15, 2026 (Beijing time). For requests submitted between June 16 and July 20, 2026, 70% of the payment will be refunded. No refund will be issued after July 20, 2026. Please send refund requests to the committee at: [aiqmd2026@163.com](mailto:aiqmd2026@163.com).

### V. Important Notes

1. Prerequisites: Applicants are expected to have completed Advanced Physical Chemistry and Quantum Mechanics or equivalent courses; basic programming experience is required. Alternatively, applicants with prior scientific research experience and published academic papers are also welcome.
2. Attendance: Full attendance is required throughout the program. Please arrange your schedule accordingly.

## VI. Application

Eligible applicants may apply free of charge. Registration and payment are required only after the application has been reviewed and accepted. For details, please visit the "Application & Registration" page on the conference website:

<https://indico.pku.edu.cn/event/51/page/146-application-registration>

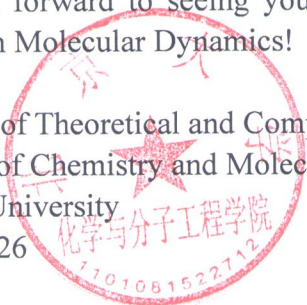
Key deadlines:

Round 1 (Early Bird): Application deadline May 10, 2026 at 08:00 AM (Beijing time, UTC+8); notification of decision by May 20.

Round 2: Application deadline June 1, 2026 at 08:00 AM (Beijing time, UTC+8); notification of decision by June 23.

We look forward to seeing you at the PKU Summer School on Frontiers in Ab Initio Quantum Molecular Dynamics!

Institute of Theoretical and Computational Chemistry  
College of Chemistry and Molecular Engineering  
Peking University  
April 2026



## Schedule for the 2026 Peking University Summer School on Frontiers in Ab

### Initio Quantum Molecular Dynamics

#### **July 24 (Friday)**

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|-------------|-------------------|
| 13:30-17:30 | On-site check-in  |
| 17:30-20:30 | Welcome Reception |

#### **July 25 - July 29 (Saturday to Wednesday)**

- |             |                               |
|-------------|-------------------------------|
| 08:30-09:50 | Invited Lecture (Session I)   |
| 09:50-10:20 | Coffee Break                  |
| 10:20-11:40 | Invited Lecture (Session II)  |
| 11:40-13:30 | Lunch Break                   |
| 13:30-14:50 | Invited Lecture (Session III) |
| 14:50-15:20 | Coffee Break                  |
| 15:20-16:40 | Invited Lecture (Session IV)  |
| 16:40-17:00 | Break                         |
| 17:00-18:00 | Hands-on sessions             |