

Notice of the 4th Conference on Quantum Simulations of Fundamental Physics

The 4th Conference on Quantum Simulations of Fundamental Physics will be held October 10–14, 2026, at the Broadway Mansions Hotel Shanghai, Shanghai, China. The Conference on Quantum Simulations of Fundamental Physics is held annually to highlight recent progress in quantum simulation research. This year's conference will focus on recent advancements in the field of digital quantum simulations with optical tweezers, trapped ions, and superconducting qubits. Topics of interest include Fermi-Hubbard models, quantum magnetism, lattice gauge theories, and phase transitions in noisy and error-corrected quantum circuits. Our primary objective is to foster a deeper exchange between novel theoretical insights and experimental advancements. Additionally, we aim to provide students and early-career researchers with valuable opportunities to engage with leading experts and contribute to the cutting-edge developments in quantum simulation research.

The relevant details of the symposium are announced as follows:

1. Topics

Quantum advantage in quantum sensing, applications of quantum algorithms and quantum simulation, quantum computing with neutral atom arrays, etc.

2. Organizers

University of Science and Technology of China

Fudan University

Tsinghua University

3. Organization Committee

Youjin Deng, University of Science and Technology of China

Lu-Ming Duan, Tsinghua University

Xiaopeng Li, Fudan University

W. Vincent Liu, University of Pittsburgh

Peter Zoller, University of Innsbruck

4. Schedule

- October 10, 2026: Registration
- October 11, 2026: Tutorial Lectures
- October 12 – 14, 2026: Invited Talks
- October 15, 2026: Departure

5. Registration Fee

The registration fee is RMB 2,000 per person. Payment will be collected on-site —by card or QR code—by Beijing Zechuan Culture Development Co., Ltd., which will issue invoices accordingly. Travel and accommodation expenses are to be borne by the participants themselves. Please find the company's bank account details below

Account Holder Name: Beijing Zechuan Culture Development Co., Ltd.

Bank Account: Shanghai Pudong Development Bank Co., Ltd. Beijing Fulicheng Branch

Account Number: 91380078801800002914

Swift Code: SPDBCNSH390

6. Venue

Broadway Mansions Hotel Shanghai (20 Bei-Suzhou Street, Shanghai)

Department of Physics, Fudan University

September 2026

