

# International Symposium on Advanced Quantum Hardware

Date: May 21, 2025

Venue: Engineering Science International Hall,  
Toyonaka Campus, Osaka University

Access: <https://www.osaka-u.ac.jp/ja/access/top> (Jpn)

<https://www.osaka-u.ac.jp/en/access/top> (Eng)

## Invited speakers

- Shinsuke Haze (Osaka University)
- Alto Osada (Osaka University)
- Kazuhisa Ogawa (Osaka University)
- Grahame Vittorini (Quantinuum)
- Nathan Lysne (Quantinuum)
- Atsushi Noguchi (University of Tokyo / RIKEN)
- Takanori Nishi (University of Tokyo)

## Registration

<https://forms.gle/aLgmAWRsQmxXpKgi9>



Co-sponsored by RIKEN-TRIP and Osaka University QIQB



## **International Symposium on Advanced Quantum Hardware**

Date: 2025.5.21 (Wed)

Venue: #21, Engineering Science International Hall (Sigma Hall), Toyonaka Campus,  
Osaka University

Co-Sponsored by RIKEN-TRIP and QIQB (Osaka University)

### **Invited speakers**

Shinsuke Haze (Osaka University)

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Kazuhisa Ogawa (Osaka University)

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Takanori Nishi (University of Tokyo)

## **Program**

9:00-9:10 Opening remarks by Dr. Kenji Toyoda (Osaka University)

### **Session 1:**

9:10-9:50 "*Tentative: Research Advancements at Quantinuum*" (Dr. Grahame Vittorini, Quantinuum)

9:50-10:30 "*Rydberg excitation of strontium atoms for interfacing neutral atoms and trapped ions*" (Dr. Shinsuke Haze, Osaka University)

10:30-10:50 Break

### **Session 2:**

10:50-11:30 "*Problems and prospects of trapped-ion quantum devices with integrated photonics*" (Dr. Alto Osada, Osaka University)

11:30-12:10 "Bosonic encoding with local modes of trapped ions", (Dr. Takanori Nishi, University of Tokyo)

12:10-13:30 Lunch

### **Session 3:**

13:30-14:10 "*Development of Superconducting Quantum Computer at QIQB, Osaka University*" (Dr. Kazuhisa Ogawa, Osaka University)

14:10-14:50 "*Tentative: Research Advancements at Quantinuum*" (Dr. Nathan Lysne, Quantinuum)

14:50-15:30 "Hybrid technologies with high performance superconducting circuits" (Dr. Atsushi Noguchi, University of Tokyo / RIKEN)

15:30-15:40 Closing remarks

16:00-17:30 Lab tours