Ministry of Science and ICT

3rd KONNEKT e-Workshop

Korea-Nordic e-Workshop for Networking and Ties

Quantum Computing

Date

August 20, 2026

Venue

Online



KNTEC

Korea-Europe QSTCC
Korea-Europe Quantum Science Technology Cooperation Center

3rd KONNEKT e-Workshop

- Korea-Nordic e-Workshop for Networking and Ties -

on Quantum Computing

Background

The **Korea-Nordic e-Workshop for Research Networking & Ties (KONNEKT e-Workshop)** aims to **establish a research collaboration network between Korea and the Nordic countries** in the field of quantum science and technology, as well as to identify potential topics for joint research.

Purpose

The workshop **seeks to expand networking opportunities for identifying collaborative needs and themes in quantum technology** between Korea and the Nordic countries. It also aims to lay the foundation for future bilateral and multilateral joint research projects.

Organizer

- Korea-Nordics Science & Technology Cooperation Center (KNTEC)
- Korea-Europe Quantum S&T Cooperation Center (KE-QSTCC)

Date & Place

- **August 20, 2026 (Thursday), CET 08:30–12:15 / EEST 09:30–13:15 / KST 15:30–19:15**
- Zoom Address: https://us06web.zoom.us/j/84505529289?pwd=9WCMkOHLk1ajMvVWyx8K1l4jo1QDE7.1

Areas & Participants

Specific Areas: Focused presentations on research collaboration opportunities in quantum computing by experts from Korea and the Nordic countries

Participants: **10 speakers from Korea and Nordic Region**, Research funding agencies such as the National Research Foundation of Korea (NRF) and Nordic counterparts

Speakers

Korean Side:

- **Yong-Ho Lee**, *Director, Center for Superconducting Quantum Computing System, KRISS*
- **Jaewook Ahn**, *Professor, KAIST*
- **Joonwoo Bae**, *Professor, KAIST*
- **Hyun-Gue Hong**, *Principal Research Scientist, KRISS*
- **Kyunghyun Baek**, *Professor, Yonsei University*

Nordic Side:

- **Klaus Mølmer**, *Professor, Niels Bohr Institute*
- **Stefan Alaric Schäffer,** *Assistant Professor, Niels Bohr Institute*
- **Juha Vartiainen,** *Co-founder and Chief Global Affairs Officer, IQM*
- **Hanwool Lee**, *Postdoctoral Researcher, University of Jyväskylä*
- **Sol H. Jacobsen,** Senior Researcher, Norwegian University of Science and Technology(NTNU)

Tentative Program Schedule

	Time (CET / KST)	Presentation Title	Speaker
Opening	08:30-08:35 (15:30-15:35)	Opening remarks and Introduction of the Speakers	KNTEC
Session I	08:35-08:50 (15:35-15:50)	Building Sovereign Quantum Advantage	Juha Vartiainen
	08:50-09:05 (15:50-16:05)	Scalable Superconducting Qubit System	Yong-Ho Lee
	09:05-09:20 (16:05-16:20)	A continuous-supply Yb optical tweezer platform for qubit gate characterization	Stefan Alaric Schäffer
	09:20-09:35 (16:20-16:35)	Collision-Induced Entanglement in Flying Atoms	Jaewook Ahn
	09:35-09:50 (16:35-16:50)	Q&A	
	09:50-10:05 (16:50-17:05)	Break Time	
Session II	10:05-10:20 (17:05-17:20)	Miniaturized atomic sensors in KRISS - From Core Components to Practical Applications	Hyun-Gue Hong

	10:20-10:35 (17:20-17:35)	Quantum information science and technology – collaborations start here!	Klaus Mølmer
	10:35-10:50 (17:35-17:50)	Coupling superconductivity and magnetism in quantum spintronic devices	Sol H. Jacobsen
	10:50-11:05 (17:50-18:05)	Measurement circuit ansatz: Naimark versus quantum neural-network measurements	Joonwoo Bae
	11:05-11:20 (18:05-18:20)	Perfect Discrimination of Non-Orthogonal Quantum States via Adaptive Post-Measurement Queries	Hanwool Lee Teiko Heinosaari
	11:20-11:35 (18:20-18:35)	Dual-Channel Multi-Product Formulas	Kyunghyun Baek
	11:35-11:50 (18:35-18:50)	Q&A	
Closing	11:50-12:00 (18:50-19:00)	Further Discussion and Wrap-up Remarks	KE-QSTCC