

KOREA-AUSTRIA JOINT QUANTUM WORKSHOP

Date: Tuesday 31. October, 2023

Venue: Ernst Mach Lecture Room
Boltzmanngasse 5, 2nd Floor, 1090 Wien

Purpose: Explore opportunities for international co-operation

ATTENDEES:

<Korean delegation, 8 persons>

- *Sunchil Lee, PM(Program Manager), NRF (Funding agency)
Honorary Professor of Physics at KAIST*
- *Jaewan Kim, Distinguished Professor, Korea Institute for Advanced Study
(Quantum Information Science)*
- *Yonuk Chong, Professor, Sunggyunkwan University (Quantum Computing)*
- *Byungseok Choi, Principal Researcher, Electronics and Telecommunications
Research Institute (ETRI) (Quantum Communication)*
- *Myungho Bae, Team Leader, Korea Research Institute of Standards and
Science (KRISS) (Quantum Sensing)*
- *Seungwook Baek, Director General, National Center for Quantum Tech. &
Strategy at Korea Research Institute of Standards and Science
(KRISS) (Quantum Technology Standardization)*
- *Keyyung Song, Senior Director, NRF (Policy)*
- *Jeongwon Lee, Director General, Korea-Europe Quantum Cooperation
Center (Policy)*

<Austria attendee, 6 persons>

- *Prof. Markus Arndt (University of Vienna)*
- *Prof. Markus Aspelmeyer (University of Vienna)*
- *Prof. Silke Bühler-Paschen(TU Wien)*
- *Prof. Philipp Haslinger(TU Wien)*
- *Prof. Jörg Schmiedmayer (TU Wien)*
- *Prof. Philip Walther (University of Vienna)*

PROGRAMME

Moderator : Dr. Yoojin Oh

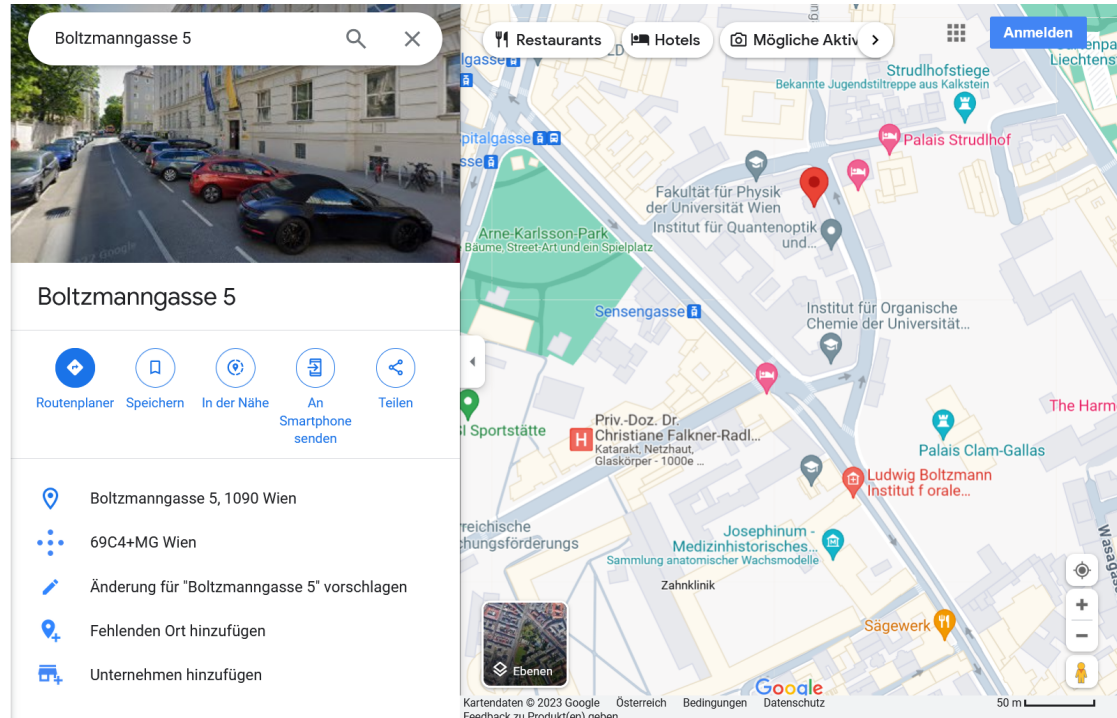
09:00 – 09:10	Opening and Welcoming Remarks Dr. Yoo Jin Oh, Vice President of the Korean Scientists and Engineers Association in Austria
	Congratulatory Remarks Representative of the Republic of Korea in Austria (tbc)
Session 1: Quantum	
09:10 – 09:20	Overview about the quantum related R&D activities in Austria Prof. Jörg Schmiedmayer (TU Wien)
09:20 – 09:30	Quantum Technology in Korea Prof. Sunchil LEE, National Research Foundation (NRF) Quantum PM (Program Manager), Honorary Professor of Physics at KAIST
09:30 – 09:40	Quantum photonics Prof. Philip Walther (University of Vienna)
09:40 – 09:50	Quantum Efforts of Korea Prof. Jaewan Kim, Korea Institute for Advanced Study, QUC Distinguished Professor
09:50 – 10:00	Quantum-Gravity in the Lab Prof. Markus Aspelmeyer (University of Vienna)
10:00 – 10:10	Superconducting quantum computing Prof. Yonuk Chong, Sunggyunkwan University
10:10 – 10:20	Matter Wave Interference Prof. Markus Arndt (University of Vienna)
10:20 – 10:30	Quantum Communication Technology in Korea Dr. Byungseok Choi, Electronics and Telecommunications Research Institute, Principal Researcher
10:30 – 11:00	Coffee Break

Session 2	
11:00 – 11:10	How to bring Quantum into electron microscopy Prof. Philipp Haslinger(TU Wien)
11:10 – 11:20	Quantum-enhanced measurements with quantum states Dr. Myungho Bae, Korea Research Institute of Standards and Science, Head of single Electron Quantum Devices Team
11:20 – 11:30	Quantum simulators for quantum field theories Prof. Jörg Schmiedmayer(TU Wien)
11:30 – 11:40	Quantum Strategy: National Vision and Standards Dr. Seungwook Baek, Korea Research Institute of Standards and Science (KRISS), Head of National Center for Quantum Tech. & Strategy
11:40 – 11:50	Discussion
11:50 – 13:30	Lunch
13:30 – 15:00	Lab Visits & Discussion
15:00 – 15:30	Drive to Atom Institute (Stadionalle 2, 1020 Wien)
15:30 – 16:30	Lab Visits: Atom Institute
16:30 – 17:00	Drive to TU Wien (Wiedner Hauptstraße 8-10, 1040 Wien)
17:00 – 17:45	Lab visit Prof. Silke Bühler-Paschen (TU Wien)
17:45	End

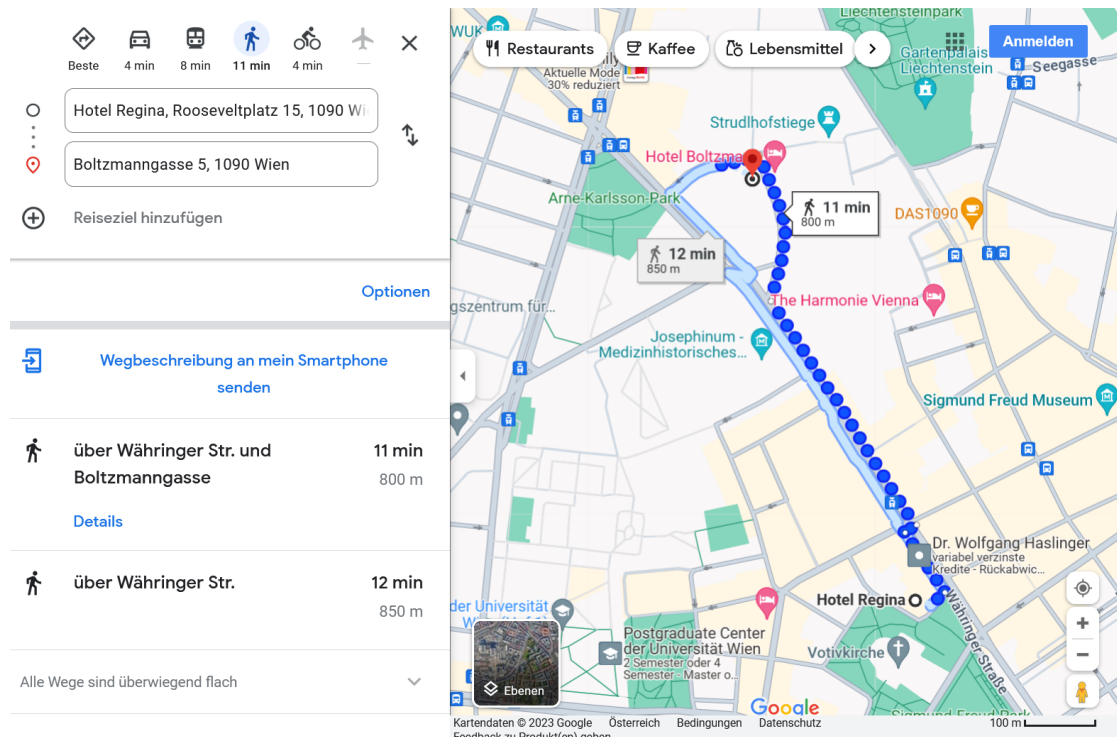


MAP

BOLTZMANNGASSE 5, 1090 VIENNA



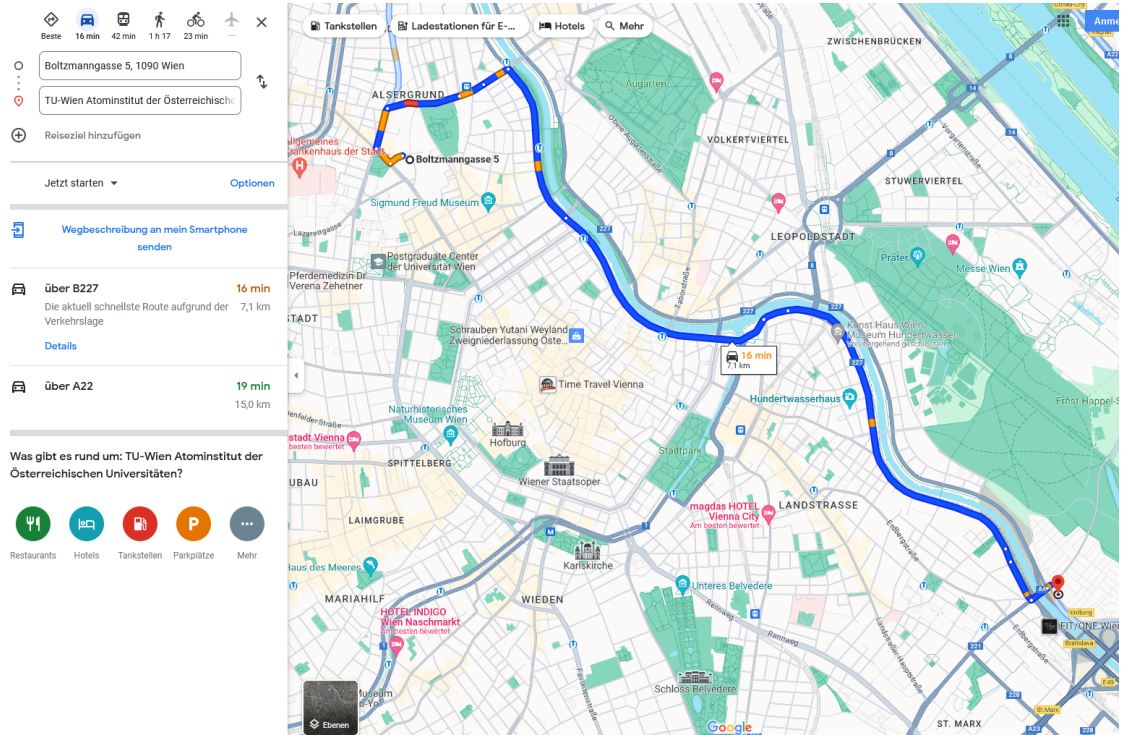
FROM HOTEL REGINA TO BOLTZMANNGASSE 5



TU WIEN ATOMINSTITUT

RESEARCH UNIT OF ATOM PHYSICS AND QUANTUM OPTICS

ADDRESS: STADIONALLEE 2, 1020 WIEN



TU WIEN

RESEARCH UNIT OF QUANTUM MATERIALS

ADDRESS: WIEDNER HAUPTSTRAÙE 8-10, 1040 WIEN, 8TH FLOOR

