

TIME SCHEDULE

09:00 THE SECOND QUANTUM REVOLUTION

>>> PETER ZOLLER (Univ. Innsbruck)

09:45 QUANTUM SIMULATION, COMMUNICATION, AND SENSING

>>> MISHA LUKIN (Harvard)

10:30 MORNING BREAK

10:45 QUANTUM COMPUTING AND QUANTUM COMMUNICATIONS

>>> JUNGSANG KIM (Duke)

11:30 SUPERCONDUCTING QUANTUM COMPUTER

>>> WILLIAM OLIVER (MIT/LINCOLN)

13:30 SEMICONDUCTING SPIN QUBIT DEVICES

>>> DOHUN KIM (SNU)

14:15 PRECISION ATOM MANIPULATION ON SURFACES

ANDREA HEINRICH (EWHA UNIV/IBS)

15:00 COFFEE BREAK

15:15 QUANTUM MATTER FOR QUANTUM DEVICES

>>> PHILIP KIM (Harvard)

PANEL DISCUSSION

16:00 QUANTUM LEAP : ARE WE AT THE TIPPING POINT?

WINTER SYMPOSIUM

New Era of Quantum Science & Engineering

2017.12.15.

서울대학교 문화관 중강당

SYMPOSIUM SPEAKERS FOR NEW ERA OF QUANTUM SCIENCE AND ENGINEERING

The technological advancement of our ability to synthesize new materials by designing and precisely controlled manipulation of atoms, molecules, and photons brings a new area of application of quantum physics. Advancement of our understanding of quantum physics may also lead to the second quantum revolution where the engineering of quantum matter with atomic precision can be achieved in the device applications. In this one-day symposium, we will discuss various aspects of the second quantum revolutions in quantum materials, quantum sensing, quantum communication and quantum computing.



**PETER
ZOLLER**

Univ. Innsbruck



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LUKIN**

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