TIME SCHEDULE THE SECOND QUANTUM REVOLUTION 09:00 >>> PETER ZOLLER (Univ. Innsbruck) 09:45 **QUANTUM SIMULATION, COMMUNICATION, AND SENSING** 10:30 **MORNING BREAK QUANTUM COMPUTING AND QUANTUM** 10:45 COMMUNICATIONS SUPERCONDUCTING QUANTUM COMPUTER 11:30 >>> WILLIAM OLIVER (MIT/LINCOLN) 13:30 **SEMICONDUCTING SPIN QUBIT DEVICES** PRECISION ATOM MANIPULATION ON 14:15 SURFACES

15:00 COFFEE BREAK

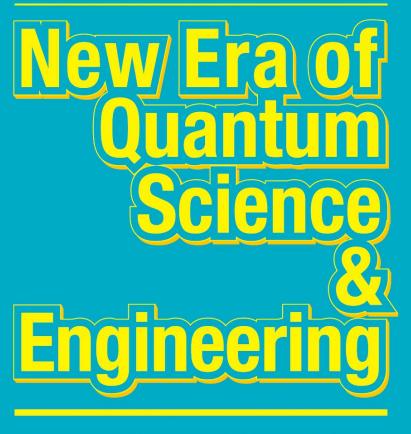
QUANTUM DEVICES>>> PHILIP KIM (Harvard)

QUANTUM MATTER FOR

- PANEL DISCUSSION

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

WINTER SYMPOSIUM



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.



15:15

PETER ZOLLER



MISHA LUKIN



JUNGSANG KIM



WILLIAM OLIVER



DOHUI KIM — SNII



ANDREA HEINRICH



PHILIP KIM