

2019 Taiwan International Quantum Computer Workshop Agenda (Taipei)

2019/01/21 Mon.

Venue: GIS NTU Convention Center

Time	Chair	Keynote/Invited Speaker	Title
13:00 – 13:30	Registration		
13:30 – 13:40	Opening – Minister Liang-Gee Chen , Ministry of Science and Technology, R.O.C (Taiwan)		
13:40 – 14:40	Prof. Shawn Shuo-Hung Hsu Director General, Department of Engineering and Technologies, Ministry of Science and Technology	Prof. William D. Oliver (USA) Physics Professor of the Practice Lincoln Laboratory Fellow RLE Associate Director, USA	Quantum Engineering of Superconducting Qubits
14:40 – 15:10	Break		
15:10 – 16:10	Prof. Hsi-Sheng Goan Department of Physics, National Taiwan University	Prof. Andrew Dzurak (Australia) Program Leader, ARC Centre of Excellence for Quantum Computing and Communication Technology, UNSW, Australia	Quantum Computing based on Silicon-CMOS Technology
16:10 – 16:50	Prof. Yueh-Nan Chen Department of Physics, National Cheng Kung University	Prof. Hsi-Sheng Goan (Taiwan, R.O.C) Department of Physics, National Taiwan University, R.O.C(Taiwan)	High-fidelity and robust quantum gate operations for quantum computing

2019/01/22 Tue.

Venue: GIS NTU Convention Center

Time	Chair	Keynote/Invited Speaker	Title
09:00 – 09:20	Registration		
09:20 – 10:20	Prof. Hoi, Io Chun Department of Physics and Institute of Astronomy, National Tsing Hua University	Prof. Andreas Wallraff (Europe) Professor, Department of Physics, ETH Zurich, Switzerland	Quantum Information Processing with Superconducting Circuits
10:20 – 10:50	Dr. Chien-Yuan Ted Chang Postdoctoral Research Fellow, Department of Applied Physics, University of Tokyo	Dr. Joel I.J. Wang (USA) Postdoctoral Associate, Research Laboratory of Electronics, MIT, USA	Quantum coherent control in graphene-based van der Waals heterostructures
10:50 – 11:10	Break		
11:10 – 11:50	Prof. Chen, Tse-Ming Professor, Department of Physics, National Cheng Kung University	Prof. Yueh-Nan Chen (Taiwan, R.O.C) Department of Physics, National Cheng Kung University, R.O.C(Taiwan)	Hierarchy in temporal quantum correlations
11:50 – 13:30	Lunch		
13:30 – 14:10	Prof. Ray-Kuang Lee Institute of Photonics Technologies, National Tsing-Hua University	Prof. Hoi, Io Chun (Taiwan, R.O.C) Department of Physics and Institute of Astronomy, National Tsing Hua University, Hsinchu, R.O.C(Taiwan)	Quantum optics with superconducting artificial atoms
14:10 – 14:40	Dr. Joel I.J. Wang Postdoctoral Associate, Research Laboratory of Electronics, MIT	Dr. Chien-Yuan Ted Chang (Japan) Postdoctoral Research Fellow, Department of Applied Physics, University of Tokyo, Japan	Experimental verification entanglement-preserving transformation between SPDC photons and electron spin in a gate-defined lateral quantum dot
14:40 – 15:10	Break		

Time	Chair	Keynote/Invited Speaker	Title
15:10 – 16:10	Prof. Hsi-Sheng Goan Department of Physics, National Taiwan University	Prof. Seigo Tarucha (Japan) Professor, Department of Applied Physics, University of Tokyo, Japan	Versatile Spin Control for Spin-based Quantum Computing with Quantum Dots
16:10 – 16:50	Prof. Yueh-Nan Chen Department of Physics, National Cheng Kung University	Prof. Ray-Kuang Lee(Taiwan, R.O.C) Institute of Photonics Technologies, National Tsing-Hua University, Hsinchu, R.O.C(Taiwan)	10dB vacuum noise squeezing at 1064 nm in Taiwan and its implementation on quantum photonic chips