2019 Taiwan International Quantum Computer Workshop Agenda (HsinChu)

2019/01/23 Wed. Venue: Room107, Engineering Building 1, National Tsing Hua University			
Time	**Chair**	**Invited Speaker**	**Title**
09:00 – 09:20	**Registration**		
09:20 – 09:30	Opening – **Prof. Shawn Shuo-Hung Hsu,** Director General, Department of Engineering and Technologies, Ministry of Science and Technology, Taiwan(R.O.C)		
09:30 – 10:30	**Prof. Shawn Shuo-Hung Hsu** Director General, Department of Engineering and Technologies, Ministry of Science and Technology	**Prof. Seigo Tarucha (Japan)** Professor, Department of Applied Physics, University of Tokyo, Japan	Versatile Spin Control for Spin-based Quantum Computing with Quantum Dots
10:30 – 10:50	**Break**		
10:50 – 11:50	**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
11:50 – 13:30	Lunch		
13:30 – 14:30	**Prof. Yueh-Nan Chen** Department of Physics, National Cheng Kung University	**Prof. William D. Oliver (USA)** Physics Professor of the Practice Lincoln Laboratory Fellow RLE Associate Director, USA	Quantum Engineering of Superconducting Qubits
14:30 – 15:10	**Prof. Chung-Yu Mou** Distinguished professor, National Tsing Hua 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
15:10 – 15:30	**Break**		

Time	Chair	Invited Speaker	Title
15:30 – 16:00	**Prof. Chen, Tse-Ming** Professor, Department of Physics, National Cheng Kung University	**Dr. Joel I.J. Wang (USA)** Postdoctoral Associate, Research Laboratory of Electronics, MIT, USA	Quantum coherent control in graphene-based van der Waals heterostructures
16:00 – 16:40	**Prof. Chung-Yu Mou** Distinguished professor, 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

2019/01/24 Thu. Venue: Room107, Engineering Building 1, National Tsing Hua University			
Time	**Chair**	**Invited Speaker**	**Title**
09:00 – 09:20	**Registration**		
09:20 – 10:20	**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
10:20 – 11:00	**Prof. Chung-Yu Mou** Distinguished professor, National Tsing Hua University	**Prof. Ray-Kuang Lee (Taiwan, R.O.C)** Institute of Photonics Technologies, National Tsing-Hua University, R.O.C(Taiwan)	10dB vacuum noise squeezing at 1064 nm in Taiwan and its implementation on quantum photonic chips
11:00 – 11:10	**Break**		
11:10 – 11:50	**Prof. Chung-Yu Mou** Distinguished professor, National Tsing Hua University	**Prof. Hsi-Sheng Goan (Taiwan, R.O.C)** Department of Physics, Nation Taiwan University, R.O.C(Taiwan)	High-fidelity and robust quantum gate operations for quantum computing
11:50 – 12:20	**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