

Workshop on Quantum Materials and Quantum Technologies

Apr 23, 2015

L3 Science Center North Block, CUHK

09:00-10:00	Marlan O. Scully (TAMU & Princeton)	<i>Seminar of Department of Physics and Keynote lecture of Workshop: Single photon superradiance and subradiance</i>
10:00-10:30 tea break		
Chair: Chi Kwong Law (CUHK)		
10:30-10:50	Che Ting Chan (HKUST)	Pseudo-spin in photonic systems
10:50-11:10	Wang Yao	Novel exciton systems in 2D transition metal dichalcogenides
11:10-11:30	Hualing Zeng (CUHK)	Spin-valley coupling in atomically thin 2D semiconductor
11:30-11:50	Qi Zhou (CUHK)	From quantum anomalous hall effect to chiral d-wave superfluids in periodically driven lattices
12:00-14:00 Lunch @ Little Egret Restaurant (小白鷺餐廳)		
Chair: Renbao Liu (CUHK)		
14:00-14:20	Quan Li	Quantum sensing in biological systems —A preparation for subcellular sensing using ND
14:20-14:40	Gang-Qin Liu (CUHK)	Quantum information processing and computing based on electron and nuclear spins in diamond
14:40-15:00	Xin Wang (CityU)	Robust quantum gates for spin qubits using composite pulses
15:00-15:20	Shengwang Du (HKUST)	Narrowband Biphotons with Frequency-Bin Entanglement
15:20-16:00 tea break & 973 Project Committee Meeting		
Chair: Chi Yong Yam (Beijing Computational Science Research Center)		
16:00-16:20	Kam Tuen Law (HKUST)	Majorana fermion induced Selective Equal Spin Andreev reflections
16:20-16:40	Dajun Wang (CUHK)	Heteronuclear coherent spin dynamics in an ultracold spin-1 mixture
16:40-17:00	Gyu-Boong Jo (HKUST)	Towards exploring new quantum material with degenerate Ytterbium atoms
17:00-17:20	Chi Kwong Law (CUHK)	Quantum optomechanics in the single-photon strong coupling regime
17:20-17:40	Ren-Bao Liu (CUHK)	Extreme nonlinear optics in the terahertz waveband
18:00-20:30 Dinner @ Honorary Family Restaurant (裕滿人家)		