

Program of The 6th International Workshop on Frontiers in Quantum Physics and Quantum Information

Beijing Computational Science Research Center, 17 ~ 20 Dec, 2018

Monday, Dec. 17, 2018	
14:00 ~ 17:30	Registration
Tuesday, Dec. 18, 2018	
09:00 ~ 09:10	Opening / Welcome
09:10 ~ 12:10 Morning Session	
09:10 ~ 10:00 (50 minutes)	Michael Snow (Indiana University Bloomington) Searches for Spin-Dependent Exotic Interactions Using Slow Neutrons
10:00 ~ 10:50 (50 minutes)	Teng Wu (Johannes Gutenberg University of Mainz) Probing the frontiers of fundamental physics with zero-field nuclear magnetic resonance
10:50 ~ 11:20 (30 minutes)	<i>Photo Taking & Coffee Break</i>
11:20 ~ 12:10 (50 minutes)	Xiang Peng (Peking University) Characteristics of PKU GNOME and Comagnetometer
12:10 ~ 14:00	<i>Lunch & Break</i>
14:00 ~ 16:10 Afternoon Session	
14:00 ~ 14:50 (50 minutes)	Kaifeng Zhao (Fudan University) Zero-field spin dynamics detection with pi-pulse modulated fields
14:50 ~ 15:40 (50 minutes)	Haiyang Yan (China Academy of Engineering Physics) Polarized spins, precision measurements and new physics beyond the standard model
15:40 ~ 16:10 (30 minutes)	<i>Coffee Break</i>
16:10 ~ 17:00 (50 minutes)	Yongchun Liu (Tsinghua University) A high-sensitivity atomic magnetometer
17:30 ~ 20:00	<i>Dinner</i>
Wednesday, Dec 19, 2018	
09:00 ~ 12:00 Morning Session	
09:00 ~ 09:50 (50 minutes)	Christoffer Moller (Niels Bohr Institute, Copenhagen University) Quantum Back-Action Evasion in a Hybrid Spin-Optomechanical System
09:50 ~ 10:40 (50 minutes)	Yanhong Xiao (Fudan University) Weak measurement enhanced atomic magnetometer and spin squeezing

10:40 ~ 11:10 (30 minutes)	<i>Coffee Break</i>
11:10 ~ 12:00 (50 minutes)	Dong Sheng (University of Science and Technology of China) Interactions between non-resonant RF fields and atoms with strong spin-exchange collisions
12:00 ~ 14:00	<i>Lunch & Break</i>
14:00 ~ 16:10 Afternoon Session I	
14:00 ~ 14:50 (50 minutes)	Meng Khoon Tey (Tsinghua University) Beating the classical precision limit with spin-1 Dicke states of more than 10000 atoms
14:50 ~ 15:40 (50 minutes)	Tian Xia (University of Science and Technology of China) Search for permanent electric dipole moments of diamagnetic atoms using cold atom techniques
15:40 ~ 16:10 (30 minutes)	<i>Coffee Break</i>
16:10 ~ 17:00 (50 minutes)	Jinhui Wu (Northeast Normal University) Nontrivial Correlated Dynamics in Rydberg Atom Pairs and Chains
17:30 ~ 19:00	<i>Dinner</i>
Thursday, Dec. 20, 2018	
09:00 ~ 12:00 Morning Session	
09:00 ~ 09:50 (50 minutes)	Xinhua Peng (University of Science and Technology of China) Optical magnetometry delivers new applications in zero- and ultralow-field NMR
09:50 ~ 10:40 (50 minutes)	Jingfu Zhang (Technische Universitaet Dortmund) Efficient indirect control of nuclear spins in diamond NV centers
10:40 ~ 11:10 (30 minutes)	<i>Coffee Break</i>
11:10 ~ 12:00 (50 minutes)	Huijie Zheng (Johannes Gutenberg University of Mainz) Zero-field magnetometry based on nitrogen-vacancy ensembles in diamond
12:00 ~ 13:00	<i>Lunch</i>