

2015 International Workshop on Frontiers of Theoretical and Computational Physics and Chemistry (WFTCPC 2015)

Xi'an, China, October 10-12, 2015

Programme Schedule

October 10 (Saturday)

07:30 - 08:00	REGISTRATION	
08:00 - 08:30	OPENING AND WELCOME	
Chair: Wenjian Liu, Peking University		
08:30 - 09:00	Jiali Gao (Minnesota Univ)	Multistate density functional theory: A practical method for modeling charge transfer processes
09:00 - 09:30	Yiqin Gao (PKU)	Structural correlations in DNA
09:30 - 10:00	Jian Liu (PKU)	Path integral Liouville dynamics for quantum correlation functions
10:00 - 10:30	BREAK / Refreshment	
Chair: Yupeng Wang, Institute of Physics, CAS, Beijing		
10:30 - 11:00	Keli Han (DICP)	Quantum dynamics
11:00 - 11:30	Hui Li (Jilin Univ)	PIMD simulation of superfluids
11:30 - 12:00	Hong Jiang (PKU)	Strongly correlated systems from first-principles: LDA+U, constrained-RPA and beyond
12:00 - 14:00	LUNCH	
Chair: Keli Han, Dalian Institute of Chemical Physics, CAS, Dalian		
14:00 - 14:30	Fenglong Gu (SCNU)	Methods for large systems
14:30 - 15:00	Wenjian Liu (PKU)	Relativistic explicit and strong correlation
15:00 - 15:30	Cai-Zhuang Wang (Ames Lab)	Study correlated electron materials using LDA+Gutzwiller method and beyond
15:30 - 16:00	GROUP PHOTO TAKING	
16:00 - 16:30	BREAK / Refreshment	
Chair: Bingbing Suo, Northwest University		
Group Discussion (to be arranged)		
18:30 -	Dinner	

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October 11 (Sunday)

08:00 - 08:30	<u>REGISTRATION</u>	
Chair: Hai-Qing Lin, Beijing Computational Science Research Center		
08:30 - 09:00	Zidan Wang (Hong Kong University)	Topological Metals and Their Quantum Simulations
09:00 - 09:30	Xincheng Xie (Peking University)	Dephasing and disorder effects in topological states
09:30 - 10:00	Yupeng Wang (IoP, CAS)	TBA
10:00 - 10:30	<u>BREAK / Refreshment / Poster Presentations</u>	
Chair: Zidan Wang, Hong Kong University		
10:30 - 11:00	Xiang-Rong Wang (HKUST)	Level Statistics of Critical States of Two-Dimensional Electron Gases
11:00 - 11:30	Zexing Qu (Jilin Univ)	Multistate density function theory and the construction of diabatic and adiabatic potential energy surfaces
11:30 - 12:00	Yisong Zheng (Jilin Univ)	Valleytronics in Graphene
12:00 - 14:00	<u>LUNCH</u>	
Chair: Ruiqin Zhang, City University of Hong Kong		
14:00 - 14:30	Wu-Ming Liu (IoP, CAS)	Topological quantum phase transition of spin-orbit coupled strong correlated systems
14:30 - 15:00	Jiang Xiao (Fudan University)	Magnetic wafer based magnonics
15:00 - 15:30	Shijie Xie (Shandong University)	Spin polarization in organic semiconductors
15:30 - 16:00	<u>BREAK / Refreshment / Poster Presentations</u>	
Chair: Xiang-Rong Wang, Hong Kong University of Science and Technology		
16:00 - 16:30	Fang Zhong (IoP, CAS)	Topological Semimetals
16:30 - 17:00	Gang Su (UCAS)	Thermal tensor network states and implications
17:00 - 17:30	Qingfeng Sun (Peking University)	Spin-dependent electron transport in DNA and protein molecules
17:30 - 18:00	Bingbing Suo (Northwest University)	Recent progress on studying of the strong correlated excited states
18:30 - 21:30	Banquet & Committee Meeting	

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October 12 (Monday)

Chair: Bingbing Suo, Northwest University

Group Discussion

(to be arranged)

List of Poster Presentations

(1) **Ruiqin Zhang** (City University of Hong Kong): **Coulomb on-site repulsion in defective graphene**