International (CECAM-CN) Workshop

on Excited States and Dynamics in Condensed Phases

May 15~16, 2024 Beijing, China



May 15 (Wednesday), 2024 Conference Room I, 1st Floor, CSRC Building			
	Morning Session Chair I: Shiwu Gao		
09:00-09:10	Opening Welcome remarks by Su-Huai Wei		
09:10-09:40	The DFT-NEGF approach to electronic and atomic structure under electronic current Mads Brandbyge (Technical University of Denmark)		
09:40-10:10	Subnanometer resolved single-molecule optical spectroscopy Zhen-Chao Dong (University of Science & Technology of China)		
10:10-10:40	Photography; Coffee & Tea Break		
	Morning Session Chair II: Su-Huai Wei		
10:40-11:10	Excited electronic states calculated by converging on saddle points on the energy surface generated by a self-interaction corrected density functional Hannes Jonsson (University of Iceland)		
11:10-11:40	Theoretical study of chemical processes at the water interface Chong-Qin Zhu (Beijing Normal University)		
11:40-14:00	Lunch (Canteen, B1) & Rest		

	May 15 (Wednesday), 2024 Conference Room I, 1st Floor, CSRC Building		
	Afternoon Session Chair I: Bing Huang		
14:00-14:30	Harnessing hot-carrier transfer: new insights in ethylene epoxidation catalysis Anders Hellman (Chalmers University of Technology)		
14:30-15:00	Computational study on the dome-like phase diagram of several superconductors Kai Liu (Renmin University of China)		
15:00-15:30	Coffee & Tea Break		
	Afternoon Session Chair II: Jun Kang		
15:30-16:00	Ab initio real-time quantum dynamics of charge carriers in momentum space Qi-Jing Zheng (University of Science & Technology of China)		
16:00-16:30	Electron-phonon coupling and anomalous phonon transport Wu Li (Eastern Institute of Technology, Ningbo)		
17:15-18:15	Dinner (Canteen, B1)		

May 16 (Thursday), 2024 Conference Room I, 1st Floor, CSRC Building			
	Morning Session Chair I: Peng-Fei Guan		
09:00-09:30	Basis-error-free RPA correlation energies for atomic and diatomic systems based on the Sternheimer equation Xin-Guo Ren (Institute of Physics CAS)		
09:30-10:00	Nonadiabatic dynamics and time resolved spectra Zheng-Gang Lan (South China Normal University)		
10:00-10:30	Coffee & Tea Break		
	Morning Session Chair II: Zijing Ding		
10:30-11:00	Theoretical study on coherent spin dynamics of magnetic molecules on surfaces Xiao Zheng (Fudan University)		
11:00-11:30	Quantum dynamics and non-adiabatic effects simulated by the initial value representation method Xin-Zheng Li (Peking University)		
11:30-14:00	Lunch (B1 Canteen) & Rest		

May 16 (Thursday), 2024 Conference Room I, 1st Floor, CSRC Building			
	Afternoon Session Chair I: Kai Liu		
14:00-14:30	Exciton-phonon coupling in semiconductors Jun Zhang (Institute of Semiconductors CAS)		
14:30-15:00	Light control of phase transitions Sheng Meng (Institute of Physics CAS)		
15:00-15:30	Coffee & Tea Break		
	Afternoon Session Chair II: Shiwu Gao		
15:30-16:00	Gilbert damping of low-dimensional ferromagnetic materials Zhe Yuan (Fudan University)		
16:00-16:30	Density-matrix embedding theory based multi-configurational wavefunction approach to strongly correlated single-impurity systems Hong Jiang (Peking University)		
16:30-17:00	Closing Concluding remarks by Shiwu Gao		
17:15-18:15	Dinner (Canteen, B1)		