

## Agenda

### Friday, 22 October 2010

**14:20 PM Opening address, Enge Wang, President of School of Physics**

#### **Session 1 Astronomy and Astrophysics**

Chair: Zhiyong Meng (孟智勇), Department of Atmospheric and Oceanic Sciences

**14:30 PM The dark secrets of gaseous nebulae -- highlights from deep spectroscopy  
Xiaowei Liu (刘晓为), Department of Astronomy. (Invited)**

15:10 PM Atomic alignment- new diagnostics of astrophysical magnetic field  
Huirong Yan (闫慧蓉), Kavli Institute for Astronomy and Astrophysics

15:25 PM NLTE stellar abundance analysis  
Zhang Huawei (张华伟), Department of Astronomy

15:40 PM Upstream magnetic field of gamma-ray burst shocks  
Zhuo Li (黎卓), Department of Astronomy

15:55 PM Color gradients of globular cluster systems in early-type galaxies  
Chengze Liu (刘成则), Department of Astronomy

**16:10 PM – 16:40 PM Coffee Break, Group Photo.**

#### **Session 2 Atmospheric Sciences**

Chair: Huawei Zhang (张华伟), Department of Astronomy

16:40 PM Carbonaceous aerosols in China: “top-down” constraints on primary sources and secondary production  
Tzung-May Fu (傅宗政), Department of Atmospheric and Oceanic Sciences

16:55 PM Recent changes in particulate air pollution over China observed from space and the ground: Effectiveness of emission control  
Jintai Lin (林金泰), Department of Atmospheric and Oceanic Sciences

17:10 PM A numerical simulation of the bowing process of a squall line in south China during 23-24 April 2007  
Zhiyong Meng (孟智勇), Department of Atmospheric and Oceanic Sciences

17:25 PM Global cooling in the immediate future?  
Xinyu Wen (闻新宇), Department of Atmospheric and Oceanic Sciences

### Saturday, 23 October 2010

#### **Session 3 Optics**

Chair: Yunquan Liu (刘运全), Institute of Modern Optics

**09:00 AM Ultrafast and Ultra-small Photonics  
Gong Qihuang (龚旗煌), Institute of Modern Optics. (Invited)**

- 09:40 AM Three-body coulomb breakup of helium by attosecond pulses  
Liangyou Peng (彭良友), Institute of Modern Optics
- 09:55 AM Resonance fluorescence and quantum coherence assisted by a plasmonic structure  
Ying Gu (古英), Institute of Modern Optics
- 10:10 AM High-Q coated microcavity for optics and photonics  
Yunfeng Xiao (肖云峰), Institute of Modern Optics

**10:25 AM - 10:45 AM Coffee Break**

**Session 4 Condensed Matter Physics**

Chair: Wang Xinqiang (王新强), Institute of Condensed Matter and Material Physics

- 10:45 AM Stepwise control and spectroscopic manifestation of the target-selective single bond dissociation and formation  
Ying Jiang (江颖), International Center for Quantum Materials
- 11:00 AM Stability of glasses in systems with liquid-liquid transformations  
Limei Xu (徐莉梅), International Center for Quantum Materials
- 11:15 AM Noise measurements of superconductor-normal  
Jian Wei (危健), International Center for Quantum Materials
- 11:30 AM Graphene grown on metals  
Zonghai Hu (胡宗海), Institute of Condensed Matter and Material Physics
- 11:45 AM Gate leakage current channels induced by indium segregation around screw dislocations in near-lattice-matched  $\text{In}_x\text{Al}_{1-x}\text{N}/\text{GaN}$  heterostructures  
Fujun Xu (许福军), Institute of Condensed Matter and Material Physics
- 12:10 AM Strain redistribution in  $\text{InGaN}/\text{GaN}$  micro-LED evidenced by cathodoluminescence mapping  
Zhizhong Chen (陈志忠), Institute of Condensed Matter and Material Physics

**12:25 PM - 14:30 PM Lunch Break**

**Session 5 Nuclear Physics**

Chair: Jian Wei (危健), International Center for Quantum Materials

- 14:30 PM Laser driven ion accelerators**  
**Xueqing Yan (颜学庆), Institute of Heavy Ion Physics. (Invited)**
- 15:10 PM RF structure design and field tuning of RFQ accelerator  
Kun Zhu (朱昆), Institute of Heavy Ion Physics
- 15:25 PM Coded neutron source imaging  
Yubin Zou (邹宇斌), Institute of Heavy Ion Physics

**15:40 PM - 16:00 PM Coffee Break**

**Session 6 Nuclear Physics**

Chair: Huirong Yan (闫慧蓉), Kavli Institute for Astronomy and Astrophysics

16:00 PM Satellite observation of plasma waves near x-line during magnetic reconnection  
Chijie Xiao (肖池阶), Institute of Plasma Physics & Fusion Studies

16:15 PM CMGA2.0, A Code to Assay Abundances of Plutonium Isotopes  
Siguang Wang (王思广), Department of Technological Physics

16:30 PM Development of an ion irradiation platform for nuclear material study  
Zheng Tao (郑涛), Department of Technological Physics