

## Interfaces between structure and reactions for rare isotopes and nuclear astrophysics

August 15 – 19, 2011

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### Monday, August 15, 2011

#### Room C421, Physics and Astronomy Tower

- **9:45 ~ Alex Brown, Michigan State Univ**  
Introduction to the Program
- **10:00 ~ Alexander Volya, Florida State Univ**  
"Reactions and structure aspects of the nuclear many-body dynamics"
- **10:45 ~ Discussion**
- **11:00 ~ Antonio Moro, Univ of Sevilla**  
"TBA"
- **11:45 ~ Discussion**

#### Room C421, Physics and Astronomy Tower

- **2:00 ~ Topical Discussion**
- **4:00 ~ Takashi Nakatsukasa, RIKEN Nishina Center**  
"Time-dependent mean-field approaches to nuclear response and reaction"
- **4:45 ~ Discussion**

### Tuesday, August 16, 2011

#### Room C421, Physics and Astronomy Tower

- **10:00 ~ Sait Umar, Vanderbilt Univ**  
"Microscopic Heavy-Ion Potentials Based on TDHF"
- **10:45 ~ Discussion**
- **11:00 ~ Volker Oberacker, Vanderbilt Univ**  
"Microscopic (TDHF and DC-TDHF) study of heavy-ion fusion and capture reactions with neutron-rich nuclei"
- **11:45 ~ Discussion**

#### Room A114, Physics and Astronomy Auditorium

- **2:00 ~ Topical Discussion**
- **4:00 ~ Kazu Yabana, Univ of Tsukuba**  
"Time-dependent approaches for reactions at barrier energy"
- **4:45 ~ Discussion**

### Wednesday, August 17, 2011

#### Room C421, Physics and Astronomy Tower

- **10:00 ~ Thomas Neff, GSI**  
"Microscopic calculation of the  $\text{He}3(\alpha,\gamma)\text{Be}7$  capture reaction in the FMD approach"
- **10:45 ~ Discussion**
- **11:00 ~ Ken Nolle, Argonne National Laboratory**  
"Resonance and virtual widths from ab initio quantum Monte Carlo methods"
- **11:45 ~ Discussion**

#### Room C520, Physics and Astronomy Tower

- **2:00 ~ Topical Discussion**
- **4:00 ~ Carlos Bertulani, Texas A&M Univ**  
"TBA"
- **4:45 ~ Discussion**

**Thursday, August 18, 2011****Room C421, Physics and Astronomy Tower**

- **10:00 ~ Jie Meng, Peking Univ**  
"Deformed halo and r-process calculation with CDFT"
- **10:45 ~ Discussion**
- **11:00 ~ Hiroyuki Sagawa, Univ of Aizu**  
"Pairing correlations and anti-halo effect in exotic nuclei"
- **11:45 ~ Discussion**

**Room C421, Physics and Astronomy Tower**

- **2:00 ~ Topical Discussion**
- **4:00 ~ Bruce Barrett, Univ of Arizona**  
"Prospects for the No Core Shell Model"
- **4:45 ~ Discussion**

**Friday, August 19, 2011****Room C421, Physics and Astronomy Tower**

- **9:30 ~ Carlo Barbieri, Univ of Surrey**  
"Ab-initio Gorkov-Green's function calculations for open shell nuclei"
- **10:15 ~ Discussion**
- **10:30 ~ Webcast from FRIB workshop**

**Room C421, Physics and Astronomy Tower**

- **2:00 ~ Topical Discussion**

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Thank you!**