

## **Nuclei and Fundamental Symmetries: Theory Needs of Next-Decade Experiments**

August 12 - 16, 2013

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### **Monday, August 12, 2013**

#### **Room C421, Physics/Astronomy Tower**

- 10:00 am: Javier Menéndez TU Darmstadt  
**"Matrix Elements for Fundamental Symmetries: Neutrinoless Double-Beta Decay and WIMP scattering off nuclei"**
- 11:00 am: Vincenzo Cirigliano, LANL  
**"Beta decays and non-standard interactions in the LHC era"**
- 3:00 pm: Roxanne Springer, Duke Univ  
**"Discussion/critique of proposed low energy/high intensity upgrade of the High Intensity Gamma Source: theory needs and experimental issues"**

### **Tuesday, August 13, 2013**

#### **Room C421, Physics/Astronomy Tower**

- 10:00 am: Kai Zuber, TU Dresden  
**"Double beta decay - Status and perspectives"**
- 11:00 am: Tomas Rodriguez, TU Darmstadt  
**"Neutrinoless double beta decay nuclear matrix elements calculated with energy density functional methods"**
- 3:00 pm: Roger Carlini, JLab  
**"First results from QWEAK"**

### **Wednesday, August 14, 2013**

#### **Room C421, Physics/Astronomy Tower**

- 10:00 am: Brian Tiburzi, City College of NY  
**"Towards exploring fundamental symmetries with lattice QCD"**
- 11:00 am: William Snow, Indiana Univ/CEEM  
**"NN weak interaction experiments: help needed from nuclear theory"**

### **Thursday, August 15, 2013**

#### **Room C421, Physics/Astronomy Tower**

- 10:00 am: Ubirajara van Kolck, Institut de Physique Nucléaire  
**"SM and BSM Time-Reversal Violation in Light Nuclei"**
- 11:00 am: Michael Hass, Weizmann Institute  
**"Recent progress in measuring beta-nu correlations using an electrostatic ion trap"**

### **Friday, August 16, 2013**

#### **Room C421, Physics/Astronomy Tower**

- 10:00 am: Barry Holstein, Univ of Massachusetts  
**"Hadronic Parity Violation"**
- 11:00 am: Andrei Derevianko, Univ of Nevada, Reno  
**"Test of fundamental symmetries with atoms and molecules"**

### **INT Program 13-2b Participants August 12-16, 2013**

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