

INT 11-2a

Extreme Computing and its Implications for the Nuclear Physics/Applied Mathematics/Computer Science Interface

June 6 - 10, 2011

Monday, June 6, 2011

Room C421, Physics and Astronomy Tower

- **10:00: Wick Haxton, UC Berkeley**
Introduction to the program
- **10:15: Steven Pieper, Argonne National Laboratory**
Introduction to first week and housekeeping details
- **10:20: James Vary, Iowa State University**
"Recent progress and new challenges in ab initio nuclear structure and nuclear reactions"
- **2:00: Bira van Kolck, University of Arizona**
"Harmonic EFT: trapped atoms and nucleons"

Tuesday, June 7, 2011

Room C421, Physics and Astronomy Tower

- **10:00: Bruce Barrett, University of Arizona**
"Ab initio shell model: with and without a core"
- **11:30: Pieter Maris, Iowa State University**
"No-core configuration interaction calculations for light nuclear systems"

Wednesday, June 8, 2011

Room C421, Physics and Astronomy Tower

- **10:00: Andrey Shirokov, Moscow State University**
"Resonance energy and width in the no-core shell model"
- **2:00: Aurel Bulgac, University of Washington**
"Real-time deterministic and stochastic dynamics of Fermionic superfluid systems: nuclei and the unitary Fermi gas"

Thursday, June 9, 2011

Room C421, Physics and Astronomy Tower

- **10:00: Stefano Gandolfi, Los Alamos National Laboratory**
"Ab-initio calculation of confined neutrons and implications for Skyrme models"
- **2:00: Baha Balantekin, University of Wisconsin, Madison**
"The analogy between the nuclear pairing problem and collective neutrino oscillations"

Friday, June 10, 2011

Room C421, Physics and Astronomy Tower

- **10:00: Robert Wiringa, Argonne National Laboratory**
"QMC calculations of light nuclei -- more than just energies"

Participants June 6 - 10, 2011

Baha Balantekin	Univ of Wisconsin, Madison	baha@physics.wisc.edu	6/7 – 6/18	C424	5-9828
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Pieter Maris	Iowa State University	pmaris@iastate.edu	6/5 -6/11	C437	5-3620
John W. Negele	MIT	negele@MIT.EDU	6/6-7/8	Remote Attendee	
Steven C. Pieper	Argonne National Lab	spieper@anl.gov	6/5-6/10	C411A	5-3606
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Please send or bring a .pdf or .ppt of your slide presentation to Janine in C411

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Thank you!

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