

INT Program INT13-2a

**Advances in quantum Monte Carlo techniques for non-relativistic many-body systems**

July 1 - 5, 2013

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**Monday, July 1, 2013**

**Room C421, Physics/Astronomy Tower**

- 9:55 am: Greetings and brief introduction
- 10:00 am: Saverio Moroni, DEMOCRITOS, IOM-CNR  
**"Forces and Response Functions in QMC"**
- 11:30 am: Riccardo Rota, Università degli Studi di Trento and INO-CNR  
**"Quantum Monte Carlo study of the dynamic structure factor of Bose hard-sphere systems"**

**Tuesday, July 2, 2013**

**Room C421, Physics/Astronomy Tower**

- 10:00 am: Alexandros Gezerlis, TU Darmstadt  
**"Quantum Monte Carlo with Chiral Effective Field Theory Interactions"**
- 11:30 pm: Manolo Per, Commonwealth Scientific and Industrial Research Organisation  
**"Calculating properties other than the total energy in Diffusion Monte Carlo"**

**Wednesday, July 3, 2013**

**Room C421, Physics/Astronomy Tower**

- 10:00 am: Piotr Magierski, Warsaw University of Technology  
**"Equilibrium and non-equilibrium properties of unitary Fermi gas from Quantum Monte Carlo"**
- 11:30 am: Miguel Morales, LLNL  
**"Quantum Monte Carlo benchmark of exchange-correlation functionals for ab-initio simulations"**

**Thursday, July 4, 2013**

No Seminar

*Happy July 4th!!!*

**Friday, July 5, 2013**

**Room C421, Physics/Astronomy Tower**

- 10:00 am: Brenda Rubenstein, Columbia University  
**"Finite Temperature Auxiliary-Field Quantum Monte Carlo for Bose-Fermi Mixtures"**
- 11:30 pm: Christopher Gilbreth, Yale University  
**"Stabilizing Canonical-Ensemble Calculations in the Auxiliary-Field Monte Carlo Method"**

Please send your talks to [janine@phys.washington.edu](mailto:janine@phys.washington.edu) or bring them to me in C411.

**INT Program INT13-2a Participants July 1-5, 2013**

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