

Computational and Theoretical Advances for Exotic Isotopes in the Medium Mass Region

April 1 - 5, 2013

Monday, April 1, 2013 - No talks**Tuesday, April 2, 2013****Room C421, Physics/Astronomy Tower**

- 11:00 am: Arianna Carbone, Univ de Barcelona
"Nuclear Matter with Chiral Three-Nucleon Forces"

Room C520, Physics/Astronomy Tower

- 1:30 pm: Sven Binder, TU Darmstadt
"Ab Initio Coupled Cluster Calculations of Medium-Mass Nuclei"

Wednesday, April 3 – Friday, April 5**Workshop on Advances in Many-Body Theory: from Nuclei to Molecules****Wednesday, April 3 ~talks in rooms as indicated**

9:00 am – C520	Rodney Bartlett	<i>Approaching Multi-Reference Problems in Electronic Structure Theory from the Equation-of-Motion Coupled-Cluster Perspective</i>
10:00 am – C520	Robert Roth	<i>Ab Initio Nuclear Structure from Chiral NN+3N Hamiltonians</i>
		<i>Coffee</i>
11:30 am – C520	Andrea Cipollone	<i>Three-Body Forces in Green's Function Theory and First Applications to Isotopic Chains</i>
		<i>Lunch</i>
2:00 pm – C421	Trygve Helgaker	<i>Density functional theory, with and without a magnetic field</i>
3:00 pm – C421	Andreas Goerling	<i>A new generation of density-functional methods based on the adiabatic-connection fluctuation-dissipation theorem</i>
		<i>Coffee</i>
4:30 pm – C421	Heiko Hergert	<i>In-Medium SRG for Closed- and Open-Shell Nuclei</i>

Thursday, April 4 ~ all talks in C520

9:00 am	Achim Schwenk	<i>Quantum Monte Carlo Calculations with Chiral Effective Field Theory Interactions</i>
10:00 am	Gustavo Scuseria	<i>Symmetry Breaking and Restoration</i>
		<i>Coffee</i>
11:30 am	Vittorio Somà	<i>Gorkov Green's Function Approach for Open-Shell Systems (tentative)</i>
		<i>Lunch</i>
2:00 pm	Dimitri Van Neck	<i>Geminal Product Wave Function Ansatzes for the Description of Correlated Systems</i>
3:00 pm	Dmitry Lyakh	<i>Current challenges in electronic structure theory for open shell molecules and molecular clusters</i>
		<i>Coffee</i>
4:30 pm	Angelo Signoracci	<i>Development of Bogoliubov Coupled-Cluster Theory</i>

Dinner at Tutta Bella at 7:30 pm 4411 Stoneway**Friday, April 5 ~ all talks in C421**

9:30 am	Witold Nazarewicz	<i>Nuclear Open Systems</i>
		<i>Coffee</i>
11:00 am	Garnet Chan	<i>TBA</i>
		<i>Lunch</i>
1:00 pm	Ireneusz Bulik	<i>Non-collinear density functional theory for periodic systems</i>

Carlo Barbieri	Univ of Surrey	c.barbieri@surrey.ac.uk	3/24-4/20	C411A	5-3633
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Dimitri Van Neck	Univ of Gent	Dimitri.VanNeck@UGent.be	3/31-4/7	C438	5-9831

Please send or bring a .pdf or .ppt of your talk to Janine at janine@phys.washington.edu