

# TRIUMF THEORY WORKSHOP (Feb 17 - 20 2015)

Tuesday, Feb 17 2015		Wednesday, Feb 18 2015		Thursday, Feb 19 2015		Friday, Feb 20 2015	
9:00 Welcome							
	Chair: P.Navratil		Chair: S.Bacca		Chair: T.Papenbrock		Chair: D.Furnstahl
9:10	<i>R. Machleidt: Chiral nuclear forces at N4LO</i>	9:00	<i>C. Romero-Redondo: Bound and continuum properties of A=6 nuclei</i>	9:00	<i>M. Miorelli: Dipole strengths from coupled cluster theory</i>	9:00	<i>J. Menendez: Nuclear structure studies from chiral EFT in MBPT</i>
9:40	<i>H. Krebs: High precision nuclear forces within chiral EFT</i>	9:30	<i>D. Lee: New results in lattice scattering using the adiabatic projection method</i>	9:30	<i>F. Raimondi: Deuteron scattering and transfer reactions within the NCSMC</i>	9:30	<i>C. W. Johnson: Large scale calculations of nuclear structure and nuclear transition matrix elements</i>
10:10	<i>K. Hebeler: Efficient calculation of chiral three-nucleon forces up to N3LO for ab initio studies</i>	10:00	<i>C. Forssen: Order by order optimization of low-energy chiral nuclear interactions</i>			10:00	<i>S. R. Stroberg: Valence space effective operators with In-Medium SRG</i>
10:40-11:10	Coffee Break	10:30:00-11:00	Coffee Break	10:00-11:00	Coffee Break	10:30-11:00	Coffee Break
11:10	<i>A. Ekstrom: NNLOsat and optimization protocol with predictions for light and medium mass nuclei</i>	11:00	<i>J. Dohet-Eraly: Capture reactions, nucleon-alpha scattering and bremsstrahlung within the NCSMC</i>	11:00	<i>H. Hergert: In-medium similarity renormalization group: Recent developments and a look ahead</i>	11:00	<i>K. Wendt: Weak properties from first principles and IR Extrapolations</i>
11:40	<i>R. Wirth: Ab initio description of p-shell hypernuclei</i>	11:30	<i>T. Neff: Resonances and continuum states in fermionic molecular dynamics</i>	11:30	<i>V. Soma: Gorkov-Green's function theory for medium-mass nuclei</i>	11:30	<i>S. Koenig: UV extrapolations in truncated harmonic-oscillator bases</i>
12:10	<i>A. Schwenk: Open problems in chiral EFT interactions and currents for nuclear structure</i>	12:00	<i>Poster Jamboree (7+3 min each)</i>	12:00	<i>Poster Jamboree (7+3 min each)</i>	12:00	<i>C. Ji: Halo nuclei in three-body model</i>
			<i>E. A. Coello Perez: Model-independent calculation of E2 transitions</i>		<i>E. Gebrerufael: Multi-reference in-medium similarity renormalization group</i>		
			<i>R. Trippel: Collective excitations from chiral NN+3N interactions</i>		<i>M. Schuster: SRG renormalization of operators</i>		
			<i>A. Tichai: Many-body perturbation theory for ab-initio nuclear structure</i>		<i>K. Vobig: In-medium similarity renormalization group</i>		
12:40 -14:30	Lunch	12:30-14:00	Lunch	12:30-14:00	Lunch	12:30-14:30	Lunch
	Chair: J.P.Vary		Chair: G.Hagen				Chair: J.Holt
14:30	<i>P. Maris: Emergence of rotational bands in light nuclei from No-Core CI calculations</i>	14:00	<i>R. Roth: Advances on NCSM, SRG and Chiral Interactions</i>	14:00-15:00	Colloquium by B.Wiringa <i>Nuclei with Quantum Monte Carlo</i>	14:30	<i>A. Gezerlis: Quantum Monte Carlo calculations with chiral two- and three-nucleon forces</i>
15:00	<i>B.R. Barrett: Ab initio effective interactions for sd-shell valence nucleons</i>	14:30	<i>Poster Jamboree (7+3 min each)</i>			15:00	<i>S. Pastore: Electromagnetic structure of light nuclei from chi EFT</i>
			<i>O. J. Hernandez: Nuclear structure effects in <math>\mu</math>D</i>			15:30	<i>C. Barbieri: Evolution of correlations and shell model charges from SCGF</i>
			<i>S. Schulz: Four-nucleon forces in ab initio nuclear structure</i>				
		15:00	<i>K. McElvain: A Direct Construction of the Nuclear</i>				
			<i>T. Duguet: Symmetry restored coupled cluster theory</i>	15:30	Chair: A.Calci		
15:30	Coffee Break	15:30	Coffee Break		<i>A. Signoracci: Bogoliubov CC</i>	16:00	Coffee Break
16:30	<i>T. Abe: Progress in the no-core Monte Carlo shell model in light nuclei</i>		End of Talks (Power Outage)	16:00	<i>Poster Jamboree (7+3 min each)</i>	16:30	Free discussion time
					<i>C. Stumpf: Importance-Truncated Shell Model</i>		
					<i>J. Simonis: Exploring sd-shell nuclei from two- and three-nucleon interactions with realistic saturation properties</i>		
					<i>D. Furnstahl: A recipe for EFT uncertainty quantification in nuclear physics &amp; Revisiting many-body power counting in nuclear matter</i>		
17:00	<i>N. Nevo Dinur: Shedding light on the proton radius puzzle looking at light muonic atoms</i>			16:30	Poster Session		
17:30	End of talks	16:00		17:45	End of talks	17:30	End of workshop