THEORY WORKSHOP (Feb 22 - 26 2016)

Tue, Feb 23, 16		Wed, Feb 24, 16		Thu, Feb 25, 16		Fri, Feb 26, 16	
	Chair: P. Navratil		**Chair: R. Roth**		**Chair: A. Calci**		**Chair: J. Holt**
9:00	**Welcome by Jens Dilling Associated Laboratory Director for Physical Sciences**	9:00	*Gaute Hagen: Recent advances in coupled-cluster computations of nuclei*	9:00	*Carolina Romero-Redondo: Ab initio NCSMC for three-cluster dynamics*	9:30	*Ragnar Stroberg: The shell model as an ab-initio tool*
9:15	*Kai Hebeler: Calculation of semi-local 3N interactions and first few-body results up to N3LO*	9:30	*Heiko Hergert: New Extensions of the In-Medium Similarity Renormalization Group*	9:30	*Mark Caprio: Natural orbitals for ab initio calculations*	10:00	*Calvin Johnson: Spectral distribution theory and the evolution of forces under the similarity renormalization group*
9:45	*Ashot Gasparyan: Towards a unified precision theory of chiral nuclear forces and pion-nucleon dynamics*	10:00	*Vittorio Soma: Green's function studies from oxygen to nickel*	10:00	*Takashi Abe: No-core MCSM calculations in light nuclei*	10:30	*Thomas Neff: Two-body densities from NCSM/SRG: What can they tell us?*
10:15-10:45	**Coffee Break**	**10:30:00-11:00**	**Coffee Break**	**10:30-11:00**	**Coffee Break**	**11:00-11:30**	**Coffee Break**
10:45	*Andreas Ekstrom: Ab initio nuclear physics with chiral EFT*	11:00	*Poster Jamboree (7+3 min each)* *Klaus Vobig: Medium-Mass Nuclei from Improved Chiral Interactions*	11:00	*Poster Jamboree (7+3 min each)* *Alexander Tichai: Multiconfigurational Many-Body Perturbation Theory for Ab-Initio Nuclear Structure*	11:30	*Micah Schuster: CCEI in Multiple Shells*
11:15	*Maria Piarulli: Chiral Potentials and Light-Nuclei Structure*		*Richard Trippel: Correlated Random-Phase Approximation from Coupled Cluster and In-Medium SRG* *Takyugi Miyagi: Applications of the unitary-model-operator approach to the closed sub-shell nuclei*		*Stefan Schulz: Initial Four-Body Forces in Many-Body Calculations* *Christopher Coutts: Suppressing induced many-body forces by designed SRG generators*	12:00	*Roland Wirth: Induced Hyperon-Nucleon-Nucleon Interactions and the Hyperon Puzzle*
11:45	*Sebastian Koenig: Deuteron electrodisintegration with unitarily evolved potentials*	11:30	*Eskendr Gebrerufael: Ab Initio Spectroscopy of Open-Shell Medium-Mass Nuclei: Merging NCSM and In-Medium SRG*	11:30	*James Vary: Effective Operators for the No Core Shell Model*	12:30	*Stefano Gandolfi: The equation of state of neutron matter and the structure of neutron stars*
12:15 -14:00	**Lunch**	**12:00-14:00**	**Lunch**	**12:00-14:00**	**Lunch**	**13:00-14:00**	**Lunch**
	Chair: D. Lee		**Chair: G. Hagen**	*14:00-15:00*	**Colloquium by Thomas Papenbrock,** *"Recent Advances in Nuclear Theory"*		**Free discussion time**
14:00	*Guillaume Hupin: Nuclear structure and reactions from chiral interactions*	14:00	*Jeremy Dohet-Eraly: Electromagnetic transitions in the NCSMC*				
14:30	*Nir Nevo Dinur: Understanding the proton radius puzzle: the role of nuclear structure corrections*	14:30	*Dean Lee: Nuclear binding near a quantum phase transition*		**Chair: C. Johnson**		
15:00	*Saori Pastore: Electroweak properties of light nuclei*	15:00	*Bruce Barrett: Fluorine isotope systematics: ab initio vs phenomenological analyses*	15:30	*Joel Lynn: Chiral Three-Nucleon Interactions in Light Nuclei, Neutron-Scattering, and Neutron Matter*		
15:30	**Coffee Break**	**15:30**	**Coffee Break**				
16:00	*Poster Jamboree (7+3 min each)* *Hilla DeLeon: Low energy electroweak interaction processes in A=2,3 nuclei in pionless EFT* *Javier Hernandez: Two-body currents in nuclei* *Daniel Saaf, Two-body transition densities in NCSM: Microscopic description*	16:00	*Poster Jamboree (7+3 min each)* *Christina Stumpf: Towards Multi-Shell Valence Spaces* *Mirko Miorelli: Electric dipole polarizability for medium-heavy nuclei* *Tianrui Xu: Coulomb sum rule from coupled-cluster theory*	16:00	*Poster Jamboree (7+3 min each)* *Robert Baker: First ab initio symplectic-model results for light and medium-mass nuclei* *Alison Dreyfuss: Better Living Through Symmetry: probing alpha-clustering in Ne-20* *Anna McCoy: Ab initio multi-irrep symplectic no-core configuration interaction calculations*		
16:30	*Ingo Tews: Quantum Monte Carlo calculations of neutron*	16:30	*Doron Gazit: Precision predictions of pionless EFT and fine tuning in chiral EFT*	16:30	**Poster Session**		
17:00	**End of talks**	17:00	**End of talks**	18:00	**End of talks**	17:30	**End of workshop**
				19:00	*Workshop Dinner at Mahony & Sons UBC*		