INT Workshop INT 15-58W

Reactions and Structure of Exotic Nuclei

March 2 – March 13, 2015

Monday, March 2, 2015

ALL TALKS WILL BE IN ROOM C-520

8:00am	**Registration in Room C-411**	
9:20am	**Welcome**	David Kaplan, INT Director
9:30am	**Intro Remarks, Organizational Details, & LENP/Astro White Paper**	Charlotte Elster, Ohio University
9:45am	**Ab Initio Unified Approach to Nuclear Structure and Reactions**	Petr Navratil, TRIUMF
10:30am	**COFFEE BREAK**	
11:00am	**The T(T,3n)α, T(3He,np)α, 3He(3He,2p)α Reactions at Low Energies**	Carl Brune, Ohio University
11:45am	**Computations of Medium-Mass Nuclei, Nuclear Interactions and Saturation**	Thomas Papenbrock, University of Tennessee
12:30pm	**LUNCH**	
2:00pm	**Symmetry-adapted no-core shell model and its application to open-shell intermediate mass nuclei**	Kristina Launey, Louisiana State University
2:45pm	**Quasi-free Knockout Reactions Studies at RIBF**	Tomohiro Uesaka, RIKEN
3:30pm	**COFFEE BREAK**	
4:00pm	**Complex Scaling with realistic interactions and the No Core Gamov Shell Model**	Georgios Papadimitriou, Iowa State University
4:45pm	**Light Nuclei in Effective Field Theory**	Chen Ji, TRIUMF
5:30pm	**OPEN DISCUSSION**	

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Tuesday, March 3, 2015

9:00am	**Quantum Monte Carlo Calculations of Reaction and Scattering Processes**	Kenneth Nollett, University of South Carolina
9:45am	**Ab Initio Theories of Medium Mass Isotopes and the Role of 3NFs at Large Asymmetries**	Carlo Barbieri, University of Surrey
10:30am	**COFFEE BREAK**	
11:00am	**Probing Nucleon Correlations and Neutron-Proton Correlations using Transfer and Knockout Reactions**	Jenny Lee, The University of Hong Kong
11:45am	**Indirect Reaction Studies for Astrophysics at CMU**	Georgios Perdikakis, Central Michigan University
12:30pm	**LUNCH**	
2:00pm	**Towards Ab Initio Calculations of Dipole Strength in Exotic Nuclei**	Sonia Bacca, TRIUMF
2:45pm	**Direct, Semi-Direct, and Resonant Neutron Capture**	Goran Arbanas, Oak Ridge National Laboratory
3:30pm	**COFFEE BREAK**	
4:00pm	**Self-Consistent and Relativistic Study of Nuclear Spin-Isospin Resonances**	Haozhao Liang, RIKEN
4:45pm	**Ab Initio Many-Body Calculations of Single Nucleon Transfer Reactions, Application to 7Li(d,p)8Li**	Francesco Raimondi, TRIUMF
5:30pm	**OPEN DISCUSSION**	

Wednesday, March 4, 2015

9:00am	**Coupled Reaction Channels Calculations based on FRESCO**	Ian Thompson, Lawrence Livermore National Laboratory
9:45am	**Coupled-Cluster Calculations of Nuclear Structure and Reactions in Medium Mass Nuclei from Chiral Interactions**	Gaute Hagen, Oak Ridge National Laboratory
10:30am	**COFFEE BREAK**	
11:00am	**Nuclear Reaction Rate Needs for Heavy Element Nucleosythesis**	Rebecca Surman, University of Notre Dame
11:45am	**Experimental Results on Quasifree Scattering Reactions in Inverse Kinematics**	Stefanos Paschalis, T U Darmstadt
12:30pm	**LUNCH**	
2:00pm	**OPEN DISCUSSION & FREE TIME (Held in room C-421)**	
6:30pm	**WORKSHOP DINNER**	

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Thursday, March 5, 2015

9:00am	**Interplay of Direct, Pre-Equilibrium, and Compound Processes in Nuclear Reactions**	Jutta Escher, Lawrence Livermore National Lab
9:45am	**Radioactive Capture Reactions with Exotic Nuclei**	Barry Davids, TRIUMF
10:30am	**COFFEE BREAK**	
11:00am	**Reactions and Structure employing the DOM in a broader context**	Willem Dickhoff, Washington University
11:45am	**Microscopic Nucleon-Nucleus Optical Potentials from Chiral Forces**	Jeremy Holt, University of Washington
12:30pm	**LUNCH**	
2:00pm	**Microscopic Folding Optical Potentials and Connections to the NCSM Structure Description**	Charlotte Elster, Ohio University
2:45pm	**Elastic Scattering and other Reaction Data for DOM analysis including nucleon Knockout to Continuum States**	Robert Charity, Washington University
3:30pm	**COFFEE BREAK**	
4:00pm	**Nonlocal Dispersive Optical Model**	Hossein Mahzoon, Washington University in St. Louis
4:45pm	**Towards Optical Potentials from Coupled Cluster Calculations**	Jimmy Rotureau, Michigan State University
5:30pm	**OPEN DISCUSSION**	

Friday, March 6, 2015

9:00am	**Reaction Spectroscopy using High and Low Energy Beams**	Rituparna Kanungo, Saint Mary's University
9:45am	**Constraining Astrophysical Reaction Rates with Transfer Reactions at Low and Intermediate Energies**	Christoph Langer, NSCL
10:30am	**COFFEE BREAK**	
11:00am	**Deuteron Induced Reactions**	Gregory Potel Aguilar, MSU/LLNL
11:45am	**Faddeev Techniques as Tool to Study Reactions with Exotic Nuclei**	Vasily Eremenko, Ohio University
12:30pm	**LUNCH**	
14:00pm	**Microscopic Approach of Nucleus-Nucleus Bremsstrahlung**	Jérémy Dohet-Eraly, TRIUMF
14:45pm	**Workshop Closing Remarks**	Program Organizers

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