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 | | |
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| 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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March 2 – March 13, 2015

Tuesday, March 3, 2015

| 9:00am | Quantum Monte Carlo Calculations of Reaction and Scattering Processes | Kenneth Nollett, University of South Carolina |
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| 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 | lan Thompson, Lawrence Livermore National Laboratory |
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| 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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March 2 – March 13, 2015

Thursday, March 5, 2015

| 9:00am | Interplay of Direct, Pre-Equilibrium, and Compound Processes in Nuclear Reactions | Jutta Escher, Lawrence Livermore National Lab | |
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| 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, Washingto 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 | |
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| 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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