INT Program INT-17-1a Workshop Week 3

Nuclear Reactions: A Symbiosis between Experiment, Theory and Applications March 13 - 16, 2017

ALL TALKS WILL BE HELD IN C-520, UNLESS OTHERWISE NOTED.

Monday, March 13, 2017

	Morning session chair: Jutta Escher, Lawrence Livermore National Lab	
8:00 AM	Registration, room C411	
9:00 AM	Welcome	
	Larry McLerran, Director, Institute for Nuclear Theory	
9:15 AM	"Gamov Shell Model"	
	Marek Ploszajczak, GANIL	
10:05 AM	"Recent advances in understanding of shells evolution in N=7 isotones and Nitrogen isotopes"	
	Grigory Rogachev, Texas A&M University	
10:35 AM	Coffee break	
10:50 AM	"Current nuclear reaction research at ATLAS"	
	Birger Back, Argonne National Laboratory	
11:40 AM	Discussion Session	
	Afternoon session chair: Filomena Nunes, MSU/NSCL	
1:45 PM	"Integrating ab initio structure models into accurate reaction calculations using EFT" Pierre Capel, Université libre de Bruxelles (ULB)	
2:15 PM	"Search for cluster structure using radioactive beams" Tan Ahn, University of Notre Dame	
2:45 PM	Coffee break	
3:00 PM	"Experiment and Phenomenology for Reactions with 3 Bodies in the Final State"	
	Carl Brune, Ohio University	
3:30 PM	"Unbound nuclei by projectile fragmentation and transfer" Angela Bonaccorso, INFN	
4:00 PM	Discussion Session	
Tuesday, March 14, 2017		

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Morning session chair: Nicholas Scielzo, Lawrence Livermore National Laboratory

8:55 AM	Announcements
	Organizers
9:00 AM	"FRIB"
	Fernando Montes, Michigan State University
9:50 AM	"Particle Spectroscopy of Unbound States for Nuclear Astrophysics"
	Jeffery Blackmon, Louisiana State University
10:20 AM	Coffee break
10:40 AM	"Nuclear Exotic Modes and Their Impact on Astrophysical Observables"
	Nadia Tsoneva, Institut für theoretische Physik
11:10 AM	"Connecting Nuclear Structure to Stellar Astrophysics"
	Anton Tonchev, LLNL

11:30 AM	Discussion Session
	Afternoon session chair: Birger Back, Argonne National Laboratory
1:45 PM	"Proton Transfer Reactions on Exotic Beams to Probe Nucleosynthesis" Dan Bardayan, University of Notre Dame
2:15 PM	"86Kr(d,p) reaction studies: constraining the single-particle ANC" Jolie Cizewski, Rutgers University
2:45 PM	Coffee break
3:00 PM	"Study of inclusive breakup reactions induced by weakly bound nuclei" Lei Jin, Ohio University
3:30 PM	Discussion Session
Wednesday,	March 15, 2017
	Morning session chair: Jeffery Blackmon, Louisiana State University
8:55 AM	Announcements
9:00 AM	Organizers "Neutron capture rates and r-process nucleosynthesis"
9.00 AIVI	Rebecca Surman, University of Notre Dame
9:50 AM	"Investigation of the surrogate method via the simultaneous measurement of fission and gamma-emission probabilities" Beatriz Jurado, CENBG
10:20 AM	Coffee break
10:40 AM	"Nuclear structure and astrophysics investigations at TRIUMF-ISAC" Adam Garnsworthy, TRIUMF
11:30 AM	Discussion Session
	Afternoon session chair: Beatriz Jurado, CENBG
1:45 PM	"Experimental Neutron Capture Studies and Needed Nuclear Theory" Aaron Couture,Los Alamos National Laboratory
2:15 PM	"Compound-nuclear Reactions with Unstable Isotopes: Constraining Cross Sections with Indirect Data and Theory"
2:45 PM	Jutta Escher, Lawrence Livermore National Lab Coffee break
3:00 PM	"Beta-decay studies to understand reactions"
	Nicholas Scielzo, Lawrence Livermore National Laboratory
3:30 PM	Discussion Session
7:00 PM	Optional dinner Mamma Melina's
Thursday, M	larch 16, 2017
	Morning session chair: Kristina Launey, Louisiana State University
8:55 AM	Announcements
9:00 AM	Organizers "Weakly bound and unbound light nuclei from ab initio theory"
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9:50 AM	"Continuum in NCSM"
10:20 AM	Bruce R. Barrett, University of Arizona Coffee break

10:40 AM 11:30 AM	"Super-radiance in nuclear reactions" Naftali Auerbach, Tel Aviv University Discussion Session
	Afternoon session chair: Charlotte Elster, Ohio University
1:45 PM	"Latest developments and future applications of the dispersive optical model" Willem Dickhoff, Washington University
2:15 PM	"Connecting fundamental models with nuclear reaction evaluations" Gustavo Nobre, Brookhaven National Laboratory
2:45 PM	Coffee break
3:00 PM	"Non-local optical potentials" Filomena Nunes, Michigan State University
3:30 PM	"Asymmetry dependence of Gogny-based optical potential" Guillaume Blanchon, CEA
4:00 PM	Discussion Session

Friday, March 17, 2017

Morning session TBD

3:00 PM Discussion session