

# Three-Nucleon Interactions from Few- to Many-Body Systems

Program - held in the TRIUMF Auditorium

<b>Monday Mar 12</b>	<b>Few-nucleon observables and sensitivities to 3N interactions</b>	
7:30	Coffee/Tea and breakfast	
	<i>Chair/Discussions</i>	Griesshammer
9:30	Welcome	Shotter
9:40	Brief introduction/Questions	Griesshammer
10:00	R-matrix analysis in the A=3,4 systems and 3N interactions	Hale
10:45	Coffee/Tea break	
11:15	Nd scattering and EM-induced reactions on $^3\text{He}$ as a tool to study 3N interactions	Skibinski
12:00	Few-nucleon effective range parameters	Black
1:00	Lunch	
	<i>Chair/Discussions</i>	Horowitz
2:30	Study of three-body systems at KVI	Kalantar
3:15	Nd scattering as a tool to study 3N interactions	Sekiguchi
4:00	Coffee/Tea Break	
4:30	Study of polarization observables in pd elastic scattering and pd break-up at intermediate energies	Meyer

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<b>Tuesday Mar 13</b>	<b>EFT and relation of 3N interactions to other processes</b>	
7:30	Coffee/Tea and breakfast	
	<i>Chair/Discussions</i>	Nogga
9:00	Subleading 3N interactions in chiral EFT	Epelbaum
9:45	Relativistic boost corrections to nd scattering	Miller
10:30	Coffee/Tea break	
11:00	Determination of the chiral low-energy coefficients $c_i$ from $\pi N$ data	Meissner
12:30	Leave for Dim Sum lunch at Golden Ocean restaurant	
	<b>RG approach to nuclear interactions/effective operators</b>	
	<i>Chair/Discussions</i>	Jennings
2:30	SRG interactions and evolution of 3N forces	Perry
3:15	Low-momentum 3N interactions in light nuclei and nuclear matter	Bogner
4:00	Coffee/Tea Break	
4:30	Many-Body Forces and Microscopic DFT for Nuclei	Furnstahl
5:15	Long-range phenomena in the NCSM	Vary

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<b>Wednesday Mar 14</b>	<b>3N contributions to nuclear structure</b>	
7:30	Coffee/Tea and breakfast	
	<i>Chair/Discussions</i>	Bertsch
9:00	Nuclear structure with 8pi/TIGRESS at TRIUMF	Garrett
9:45	Light nuclei and 3N interactions	Wiringa
10:30	Coffee/Tea break	
11:00	Application of chiral NN and 3N interactions to p-shell nuclei	Navratil
12:30	Lunch	
	<i>Chair/Discussions</i>	Schwenk
2:30	Nuclear physics with the TITAN facility at TRIUMF	Dilling
3:15	Application of coupled-cluster theory to light and medium-mass nuclei, benchmarks and future directions	Dean
4:00	Coffee/Tea break	
4:30	Coupled-cluster calculations with 3N interactions	Papenbrock
5:15	Medium-mass nuclei with the UCOM potential	Feldmeier
7:00	Workshop dinner at Thai House	

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<b>Thursday Mar 15</b>	<b>Halo nuclei and nuclear reactions</b>	
7:30	Coffee/Tea and breakfast	
	<i>Chair/Discussions</i>	Griesshammer
9:00	Halo nuclei and the MAYA experiment at TRIUMF	Tanihata
9:45	Constraints on 3N interactions from scattering in light nuclear systems	Nollett
10:30	Coffee/Tea break	
11:00	Structure of He isotopes and hints of missing physics due to 3N interactions	Hagen
12:30	Lunch	
2:00	<b>TRIUMF Tour</b>	Dilling
	<i>Chair/Discussions</i>	Tanihata
3:00	Few-Body Systems in the pionless EFT	Platter
3:45	Three-body interactions and halo nuclei	Hammer
4:30	Coffee/Tea break	
5:00	Microscopic calculations of the electro-magnetic response including 3N interactions	Bacca
5:45	Hyperspherical calculations in momentum space for chiral interactions	Girlanda

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<b>Friday Mar 16</b>	<b>Future developments</b>	
7:30	Coffee/Tea and breakfast	
	<i>Chair/Discussions</i>	Furnstahl
9:00	Using chiral EFT to relate three-nucleon forces to other reactions	Phillips
9:45	Towards microscopic approaches for nuclear reactions	Quaglioni
10:30	Coffee/Tea break	
11:00	Towards theoretical error estimates for neutron star masses and radii	Tolos
12:30	Lunch	
	<i>Chair/Discussions</i>	Horowitz
2:30	Summary	Horowitz
3:00	Final Discussions	