

May 26th to June 6th 2014
Mont-Orford National Park, Québec, Canada

Monday May 26, 2014

8h15 - 8h30 Spino-Tremblay Welcome
8h30 - 9h00 Tremblay Short intro to the School, refresher in QM
9h00 - 10h00 Taillefer Experimental aspects of unconventional superconductors
10h00 - 10h30 **BREAK**
10h30 - 11h30 Côté Introduction to DFT and Density functionals
11h30 - 12h00 Rignanese Abinit code, part 1
14h00 - 15h00 *******POSTERS*******
15h00 - 16h00 Côté, Rignanese Hands-on training, # 1, Ab init
16h00 - 16h30 **BREAK**
16h30 - 17h30 Côté, Rignanese Hands-on training, # 1, Ab init
17h30 - 18h15 Rignanese Abinit code, part 2
18h15 - 19h00 Tremblay Introduction: refresher in Many-Body theory

Tuesday May 27, 2014

8h30 - 9h15 Tremblay Introduction : refresher in Many-Body Theory
9h15 - 10h00 Côté, Rignanese Hands-on training, # 2, Ab init
10h00 - 10h30 **BREAK**
10h30 - 12h00 Côté, Rignanese Hands-on training, # 2, Ab init
14h00 - 15h30 *******POSTERS*******
15h30 - 17h00 Tremblay Many-Body: Hedin equations
17h00 - 17h30 **BREAK**
17h30 - 19h00 Garate Topological Insulator

Wednesday May 28, 2014

8h30 - 10h00 Senechal DMFT
10h00 - 10h30 **BREAK**
10h30 - 12h00 Rignanese GW Method
14h00 - 15h30
15h30 - 17h00 Côté, Rignanese Hands-on training, # 3, Ab init
17h00 - 17h30 **BREAK**
17h30 - 19h00 Côté, Rignanese Hands-on training, # 3, Ab init

Thursday May 29, 2014

8h30 - 10h00	Senechal	Quantum Cluster Methods
10h00 - 10h30	BREAK	
10h30 - 12h00	Kotliar	DMFT and ab-initio methods
15h30 - 17h00	Côté, Rignanese	Hands-on training, # 4, Ab init
17h00 - 17h30	BREAK	
17h30 - 19h00	Côté, Rignanese	Hands-on training, # 4, Ab init

Friday May 30, 2014

8h30 - 10h00	Kotliar	DMFT and ab-initio methods
10h00 - 10h30	BREAK	
10h30 - 12h00	Haule	All electron methods
14h30 - 15h30	Haule	Introduction to Wien2k+DMFT
15h30 - 17h00	Kotliar, Haule	Hands-on training, Wien2k+DMFT
17h00 - 17h30	BREAK	
17h30 - 19h00	Kotliar, Haule	Hands-on training, Wien2k+DMFT

Weekend, no classes

Monday June 2, 2014

8h30 - 10h00	Tremblay	Introduction to Monte Carlo methods, Ergodicity, Detailed balance, biased sampling, variance estimate
10h00 - 10h30	BREAK	
10h30 - 12h00	Melko	Quantum Monte Carlo, SSE, loop updates
14h30 - 15h30	Troyer	Introduction to ALPS
15h30 - 17h00	Troyer	Hands-on training #1, ALPS
17h00 - 17h30	BREAK	
17h30 - 19h00	Troyer	Hands-on training #1, ALPS

Tuesday June 3, 2014

8h30 - 10h00	Del Maestro	Worm Algorithms
10h00 - 10h30	BREAK	
10h30 - 12h00	Werner	Continuous-time Quantum Monte Carlo (weak coupling)
14h00 - 15h30	Werner	Continuous-time Quantum Monte Carlo (strong coupling)
15h30 - 17h00	Troyer	Hands-on training #2, ALPS
17h00 - 17h30	BREAK	
17h30 - 19h00	Troyer	Hands-on training #2, ALPS

Wednesday June 4, 2014

8h30 - 10h00	Schollwock	DMRG
10h00 - 10h30	BREAK	
10h30 - 12h00	Schollwock	Quantum information point of view on DMRG and other methods
14h00 - 15h30	Stoudenmire	DMRG software and hands-on
15h30 - 17h00	Troyer	Hands-on training #3, ALPS
17h00 - 17h30	BREAK	
17h30 - 19h00	Troyer	Hands-on training #3, ALPS

Thursday June 5, 2014

8h30 - 10h00	Stoudenmire	DMRG
10h00 - 10h30	BREAK	
10h30 - 12h00	Orus	PEPS
15h00 - 16h00	Orus	Fermionic tensor networks
16h00 - 17h00	Troyer	Hands-on training #4, ALPS
17h00 - 17h30	BREAK	
17h30 - 18h30	Troyer	Hands-on training #4, ALPS

Friday June 6, 2014

9h00 - 12h00	FINAL EXAM	
--------------	-------------------	--