		Monday May 20, 2024
8:15	Shengrui Wang, AM. Tremblay	Welcome
	AM. Tremblay	Short introduction to the School. Quantum Materials
	M. Côté	Introduction to DFT and Density functionals
10:00	Break	
10:30	AM. Tremblay	Correlations in electronic structure and their signatures + second quantization #1
11:30	Xavier Gonze	Abinit code, part 1
12:00	Lunch	
L4:00	Poster Session	
15:00	M. Côté, Xavier Gonze	Hands-on training: Abinit #1
16:00	M. Côté, Xavier Gonze	Hands-on training: Abinit #1
17:00	Break	
17:30	AM. Tremblay	Many-Body refresher: Evolution operator, Time-ordered product, Green functions #
	AM. Tremblay	Many-Body Refresher: Spectral weight, Self-Energy, Quasiparticles #3
	Dinner	
		Tuesday May 21, 2024
08:30	AM. Tremblay	Many-Body Refresher: Coherent state functional integral #4
	Break	
	AM. Tremblay	Many-Body refresher: Source fields, Luttinger Ward, #5
	Lunch	
	Poster Session	
	Xavier Gonze	Abinit code, part 2
16:15	M. Côté, Xavier Gonze	Hands-on training: Abinit #2
	Break	
17:30	M. Côté, Xavier Gonze	Hands-on training: Abinit #2
	Dinner	
		Wednesday May 22, 2024
08:30	Agnes Valenti	Variational wave-functions and Neural networks
	Break	
	AM. Tremblay	Many-Body refresher: Lindhard function, TPSC and other approaches #6
	Lunch	
	M. Côté, Sophie Beck (Wannier 90).	
15:30	Véronique Brousseau, Olivier Gingras	Hands-on training: Abinit + Wannier90
17:00	Break	
17:30	M. Côté, Xavier Gonze	Hands-on training: Abinit + Wannier90
	Dinner	
		Thursday May 23, 2024
08:30	O. Parcollet	Dynamical Mean-Field Theory (DMFT)
	Break	
		Introduction to Monte Carlo methods, Ergodicity, Detailed balance, biased sampling
10:30	Michel Ferrero	variance estimate.
12:00	Lunch	
	Nils Wentzell	Introduction to TRIQS
	O. Parcollet, M. Ferrero, TRIQS Team	Hands-on training: TRIQS #1 Green functions, Lindhard, TPSC
	Break	The state of the s
	O. Parcollet, M. Ferrero, TRIQS Team	Hands-on training: TRIQS #1 Green functions, Lindhard, TPSC
	Dinner	There are during. The area of a street functions, Emulatu, 11 30
		Friday May 24, 2024
)8:3N	O. Parcollet	Dynamical Mean-Field Theory (DMFT)
	Break	2 justices. Weath Field Theory (2011)
	Michel Ferrero	Continuous-time Quantum Monte Carlo (CT-Int)
	Lunch	continuous time quantum monte cano (c) mt/
	O. Parcollet, M. Ferrero, TRIQS Team	Hands-on training: TRIQS #2 DMFT for models, IPT, 2-orbital model.
5・20		Thanks on training. Thigs #2 Divil 1 for infodels, if 1, 2-orbital model.
		Hands on training, TDIOS #2 DMAST for models IDT 2 autital models
L7:00	O D	Hands-on training: TRIQS #2 DMFT for models, IPT, 2-orbital model.
17:00 17:30	O. Parcollet, M. Ferrero, TRIQS Team	Traines of training. The second of the secon
17:00 17:30	O. Parcollet, M. Ferrero, TRIQS Team Dinner	Thanks on training. The second of the models, it is a second of the model.

		Monday May 27, 2024
		Monday May 27, 2024 Cellular dynamical Mean-field theory, exact diagonalization and results of a recent
08:30	David Sénéchal	
	David Scheenal	application.
10:00	Break	
		Ab initio description of strongly correlated materials: combining density
	Sophie Beck and Alex Hampel	functional theory plus dynamical mean-field theory
	Lunch	
	N. Wentzell, S. Beck, A. Hampel	Hands-on training: TRIQS #3 Realistic DMFT with Wannier in TRIQS DFT tools
	Break	Hands on training, TDIOC #2 Poplistic DMFT with Warning in TDIOC DFT tools
	N. Wentzell, S. Beck, A. Hampel Dinner	Hands-on training: TRIQS #3 Realistic DMFT with Wannier in TRIQS DFT tools
19.00	Diffici	Tuesday May 28, 2024
08:30	F. Kugler	DMFT solvers: NRG / DMRG
	Break	,
10:30	M. Ferrero	Diagrammatic Monte Carlo: Introduction and Hubbard [slot 1]
	Lunch	
	K. Haule	Diagrammatic Monte Carlo : Coulomb gas [slot 2]
	Break	Line to the state of the state
	M. Côté, O. Gingras	Hands-on training: Abinit + DFT+DMFT
	M. Côté, O. Gingras Dinner	Hands-on training: Abinit + DFT+DMFT
19.00	Dililiei	Wednesday May 29, 2024
บชาสบ	P. Werner	Nonequilibrium dynamical mean-field theory
	Break	Tronegamentan aynamical mean near theory
	Martin Eckstein	Diagrammatic theory for correlated electrons out of equilibrium
	Lunch	Plagrammatic theory for correlated electrons out or equilibrium
12.00	Lunch	Diagrammatic extension of DMFT: Spin Fluctuations, Pseudogaps and
1/1:00	Alessandro Toschi	Superconductivity
	Break	Superconductivity
	Anna Kauch	Two-particle response with parquet equations
	Coffee break & free time	The particle response with parquet equations
	Dinner	
15.00	Diffici	Thursday May 30, 2024
		Successes and challenges in the electronic structure of correlated materials
08:30	Gabi Kotliar	towards theoretical spectroscopy and materials design
	Break	,
	Sangkook Choi	LQSGW+DMFT and the fully self consistent GW+EDMFT
	Lunch	The second secon
	Gabi Kotliar and Nicola Lanata	Connecting wave functions, auxiliary particles and quantum embedding meth
	Break	The second secon
		Gutzwiller RISB + ghosts and its applications to models, electronic structure a
17:30	Nicola Lanata	non equilibrium systems.
	Dinner	4
		Friday May 31, 2024
08:30	Final exam	
	Departure	
es:		
	here are 30-minute breaks between led	ctures T
	unch is served at 12h00	e first nice day of the week when a BBQ will be served outside.
o. D	miner is served at 191100, except on the	: instruce day of the week when a bbQ will be served outside.
	1 hour LAPW basis set and show how o	ne does the calculation with it