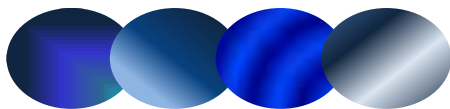


20th International Conference On Recent Progress in Many-Body Theories

9 - 13 September 2019
Hôtel Dieu St Jacques
Toulouse - France

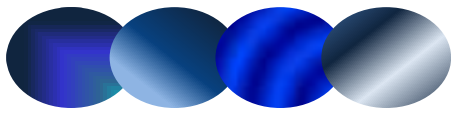




ACKNOWLEDGEMENTS

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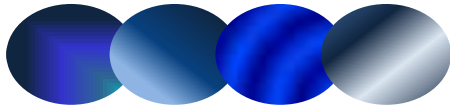
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SCIENTIFIC PROGRAM

Mon Sep 9th	Tue Sep 10th	Wed Sep 11th	Thu Sep 12th	Fri Sep 13th		
Opening (9:00/9:10)						
I. Cirac (9:10/9:45)	M. Everitt (9:00/9:35)	A. Bernevig (9:00/9:35)	C. Dharma-Wardana (9:00/9:35)	A. Pastore (9:00/9:35)	New frontiers	
E. Krotscheck (9:45/10:10)	E. Arrigoni (9:35/10:00)	M. Filippone (9:35/10:00)	D. Neilson (9:35/10:00)	M. Urban (9:35/10:00)	Nuclear	
R. Bishop (10:10/10:35)	E. K. U. Gross (10:00/10:35)	R. Du (10:00/10:35)	Kuemmel award (10:00/11:00)	A. Lovato (10:00/10:35)	Computational	
G. Ortiz (10:35/11:00)	E. Jeckelmann (10:35/11:00)	M. Panholzer (10:35/11:00)		C. Robin (10:35/11:00)	Correlations	
Coffee break (11:00/11:30)	Coffee break (11:00/11:30)	Coffee break (11:00/11:30)	Coffee break (11:00/11:30)	Coffee break (11:00/11:30)	Non-Equilibrium	
M. Grasso (11:30/12:05)	L. Clark (11:30/12:05)	M.C. Gordillo (11:30/12:05)	Feenberg award (11:30/12:30)	I. Brezinova (11:30/12:05)	Quantum fluids	
D. Régnier (12:05/12:30)	N. Trivedi (12:05/12:40)	M. Polls (12:05/12:30)		H. Kitamura (12:05/12:30)		
Lunch (12:30/14:00)	Lunch (12:40/14:00)	Lunch (12:30/14:00)	Lunch (12:30/14:00)	Lunch (12:30/14:00)		
S. Zhang (14:00/14:35)	D. Escande (14:00/14:35)	P.G. Reinhard (14:00/14:35)	Excursion	M. Holzmann (14:00/14:35)		
C. Berger (14:35/15:00)	P. Piecuch (14:35/15:10)	E. Idrisov (14:35/15:00)		J. Boronat (14:35/15:00)		
D. Zgid (15:00/15:35)	P. Magierski (15:10/15:45)	J. Han (15:00/15:25)		P. Pieri (15:00/15:25)		
C. Barbieri (15:35/16:00)	A. Tichai (15:45/16:10)	R. Rota (15:25/15:50)		Coffee break (15:25/16:00)		
Coffee break (16:00/16:30)	Coffee break (16:10/16:40)	Coffee break (15:50/16:20)		G. Roepke (16:00/16:25)		
S. Adam (16:30/17:05)	G. Carleo (16:40/17:05)	S. Bose (16:20/16:55)		S. Jensen (16:25/16:50)		
A. Crépieux (17:05/17:30)	A. Wietek (17:05/17:30)	T. Viejira (16:55/17:20)		A. Petkovic (16:50/17:15)		
M. Capone (17:30/17:55)	L. Rammelmüller (17:30/17:55)	P. Phillipps (17:20/17:55)				
	Poster session Snacks (18:00/20:00)			Gala dinner (20:00/22:00)		

MONDAY SEP 9TH

9:00	9:10	Opening	E. Suraud
9:10	9:45	Tensor Networks: Fundamental theorems and applications	I. Cirac
9:45	10:10	Variational and Parquet-diagram theory for strongly correlated normal and superfluid systems	E. Krotscheck
10:10	10:35	Quantum Phase Diagram of a Frustrated Spin-1/2 Heisenberg Antiferromagnet on a Square-Lattice Bilayer	R. Bishop
10:35	11:00	Certified Quantum Measurement: Detection of Majorana Fermions	G. Ortiz
11:00	11:30	Coffee break	
11:30	12:05	Excitations of correlated nucleons within a higher-order random-phase approximation	M. Grasso
12:05	12:30	Mixing time dependent mean-field trajectories to describe the dynamics of collisions between two superfluid nuclei	D. Regnier
12:30	14:00	Lunch	
14:00	14:35	Ab initio field-theory computations in many-fermion systems: beyond ground-state properties	S. Zhang
14:35	15:00	Complex Langevin in Nonrelativistic Rotating Bosonic Systems	C. Berger
15:00	15:35	TBA	D. Zgid
15:35	16:00	First principles understanding of nuclear structure in the medium mass region	C. Barbieri
16:00	16:30	Coffee break	
16:30	17:05	Some theoretical results for twisted bilayer graphene near magic angle	A. Shaffique
17:05	17:30	Current fluctuations in an out-of-equilibrium Kondo quantum dot	A. Crépieux
17:30	17:55	Strong Correlations in Multiorbital System: More is different (and selective)	M. Capone

TUESDAY SEP 10TH

9:00	9:35	Representing ensembles of quantum systems in phase space	M. Everitt
9:35	10:00	Correlated impurities, interfaces and photovoltaics out of equilibrium: Auxiliary Master Equation Approach	E. Arrigoni
10:00	10:35	Potential energy surfaces and Berry phases beyond the Born-Oppenheimer approximation	E. K. U. Gross
10:35	11:00	Matrix-product-state methods for nonequilibrium dynamics, transport and dissipation in correlated electron-phonon wires	E. Jeckelmann
11:00	11:30	Coffee break	
11:30	12:05	Topologically ordered light	L. Clark
12:05	12:30	Quantum Spin Liquids: Signatures of Fractionalization	N. Trivedi
12:30	14:00	Lunch	
14:00	14:35	Basic microscopic plasma physics from N-body mechanics	D. Escande
14:35	15:10	Toward Exact Quantum Chemistry by a Combination of Stochastic Wave Function Sampling and Deterministic Coupled-Cluster Computations	P. Piecuch
15:10	15:45	Exotic features of superfluidity far from equilibrium	P. Magierski
15:45	16:10	Symmetry-broken and -restored many-body perturbation theory in ab initio nuclear structure	A. Tichai
16:10	16:40	Coffee break	
16:40	17:05	Neural-Network Quantum States	G. Carleo
17:05	17:30	Thermodynamic properties of the Shastry-Sutherland model and $\text{SrCu}_2(\text{BO}_3)_2$	A. Vietek
17:30	17:55	Spin-polarized fermions at unitarity: a complex Langevin study	L. Rammelmüller
18:00	20:00	Poster session Snacks	

WEDNESDAY SEP 11TH

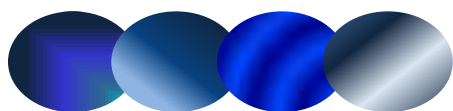
9:00	9:35	Exact Eigenstates in Non-Integrable Systems: A violation of ETH	A. Bernevig
9:35	10:00	Universality of the Hall Response(s) in strongly correlated quantum systems	M. Filippone
10:00	10:35	Spontaneous Exciton Formation and Condensation in InAs/GaSb Quantum Wells	R. Du
10:35	11:00	Beyond Kohn-Sham DFT: Explicitly correlated wave functions	M. Panholzer
11:00	11:30	Coffee break	
11:30	12:05	Low-dimensional quantum systems	M. C. Gordillo
12:05	12:30	Anderson localization of few interacting bosons in a continuum with speckle disorder	A. Polls
12:30	14:00	Lunch	
14:00	14:35	Electronic two-body dissipation in molecules and clusters	P. G. Reinhard
14:35	15:00	Entropy production in non-linear Luttinger liquid	E. Idrisov
15:00	15:25	Macroscopic bosonic zero-mode generation in dissipative one-dimensional fermion model under uniform electric field	J. Han
15:25	15:50	Emergent quantum criticality in driven-dissipative cavity arrays	R. Rota
16:00	16:30	Coffee break	
16:30	16:55	TBA	S. Bose
16:55	17:20	Restricted Boltzmann Machines for Quantum States with Nonabelian or Anyonic Symmetries	T. Vieijra
17:20	17:55	Moiré is Different: Wigner Insulating States in TBLG	P. Phillipps

THURSDAY SEP 12TH

9:00	9:35	Electron-electron and electron-ion correlations at arbitrary densities, spin-polarizations and temperatures using pseudo-atom and classical-map approaches	C. Dharma-wardana
9:35	10:00	Dissipationless electron transport, multicomponent superfluidity and other strongly-correlated quantum many-body states in electron-hole double bilayer graphene	D. Neilson
10:00	11:00	Kuemmel award	
11:00	11:30	Coffee break	
11:30	12:30	Feenerg award	
12:30	13:30	Lunch	
13:30	18:00	Excursion	
20:00	22:00	Gala Dinner	

FRIDAY SEP 13TH

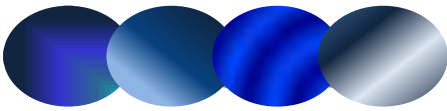
9:00	9:35	Novel finite range interactions and linear response theory	A. Pastore
9:35	10:00	Pairing in dilute neutron matter	M. Urban
10:00	10:35	Lepton-nucleus interactions from quantum Monte Carlo	A. Lovato
10:35	11:00	Self-consistent multiparticle-multihole configuration mixing description of atomic nuclei	C. Robin
11:00	11:30	Coffee break	
11:30	12:05	The time-dependent two-particle reduced density matrix method: theory and applications	I. Brezinova
12:05	12:30	Density Matrix Simulations of Many-Body Effects in Femtosecond X-Ray Absorption	H. Kitamura
12:30	14:00	Lunch	
14:00	14:35	Itinerant magnetism: the importance of many-body correlations	M. Holzmann
14:35	15:00	Finite-range effects in ultracold Bose-Bose mixtures	J. Boronat
15:00	15:25	Comparing different t-matrix approaches for a Fermi gas throughout the BCS-BEC crossover	P. Pieri
15:25	15:55	Coffee break	
15:55	16:45	Cluster formation in nuclear systems	G. Roepke
17:05	17:30	Precision thermodynamics of the homogeneous unitary Fermi gas	S. Jensen
17:30	17:55	The Casimir-like effect in a one-dimensional Bose gas	A. Petkovic



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PRACTICAL INFORMATION

SUBWAY MAP



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