

Workshop Program

Monday

arrival in Oxford

19.30 – 21.30	Registration and Drinks in the 1st floor foyer of the Lindemann Lecture theatre
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Tuesday

8.00 – 9.00		Registration
9.10 – 9.30	organizers	Welcome remarks
9.30 – 10.45	J.M.Leinaas	Exchange statistics - Basic concepts
10.45 – 11.15		coffee break
11.15 – 12.30	J.Myrheim	Exchange symmetry and anyon virial coefficients
12.30 – 14.00		lunch break
14.00 – 15.15	F.D.M.Haldane	tba
15.15 – 16.15	J.Pachos	Why should anyone care about computing with anyons?
16.15 – 17.30		coffee break and discussions
17.30 – 18.30	N.Regnault	Entanglement Spectroscopy and its application to the fractional quantum Hall phases

Wednesday

9.15 – 10.15	D.A.Mazziotti	Two-electron Reduced Density Matrices in Quantum Chemistry and Physics
10.15 – 11.15	D.Gross	Quantum Marginal Problem and Generalized Pauli Constraints
11.15 – 11.45		coffee break and discussions
11.45 – 12.45	N.N.Lathiotakis	Introduction and Overview of the Reduced Density Matrix Functional Theory
12.45 – 14.00		lunch break
14.00 – 15.00	N.Helbig	Physical Meaning of Natural Orbitals and Natural Occupation Numbers
15.00 – 16.00	P.Pickl	Derivation of the time-dependent Hartree(-Fock)-equation
16.00 – 18.00		coffee break and discussions
20.00 – 22.00		poster session and drinks

Thursday

9.15 – 10.15	M.Altunbulak	Calculation of Generalized Pauli Constraints
10.15 – 11.15	M.Christandl	Pinning of Fermionic Occupation Numbers
11.15 – 11.45		coffee break and discussions
11.45 – 13.00	F.Tennie	Fermionic Exchange Symmetry: Quantifying its Influence beyond Pauli's Exclusion Principle
13.00 – 14.30		lunch break
14.30 – 15.30	C.Benavides-Riveros	Quasipinning and Extended Hartree-Fock Method based on Generalized Pauli Constraints
15.30 – 16.15	I.Theophilou	Generalized Pauli Constraints in Reduced Density Matrix Functional Theory
16.15 – 17.00	R.Chakraborty	Openness of a Many-fermion Quantum System from the Generalized Pauli Principle
17.00 – 19.00		scientific discussions or spare time
19.00 – 22.00		Dinner at Christ Church

Friday

9.15 – 10.30	U.Schollwöck	(Almost) 25 Years of DMRG - What Is It About?
10.30 – 11.00		coffee break and discussions
11.00 – 12.15	M.Reiher	DMRG in Quantum Chemistry: From its relation to traditional methods to n-orbital density matrices and beyond
12.15 – 12.30	organizers	closing remarks
12.30 – 14.00		lunch break and end of the workshop

departure from Oxford