QMATH 15 September 2022

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Monday	TUESDAY	WEDNESDAY	Thursday	Friday
12 Registration (8:30-9:15) Opening (9:15-9:30 am)	13 Nilanjana Datta (9:30-10:30 am) Uniform entropic continuity bounds via majorization flow	14 Andreas Winter (9:30-10:30 am) Coffee Break (10:30-11:00 am)	15 Matthew Hastings (9:30-10:30 am) The sum-of-squares for fermionic systems Coffee Break	16 Sessions (9:00-10:20 am) Disordered Systems, Giedt 1006 Ben McKenna Random determinants, the elastic manifold, and landscape complexity beyond invariance Contributed talks Spectral Theory, Math 2112 Nikolay Filonov Polya Conjecture for the Dirichlet problem in a multi-dimensional ball Julien Sabin TBA Coffee Break (10:20-10:50 am) Sessions (10:50-12:00 pm) Disordered Systems, Giedt 1006 Jiaoyang Huang Extreme eigenvalues of random graphs with growing degrees Contributed talks Spectral Theory, Math 2112 David Damanik Johnson-Schwartzman gap labelling and applications Lingrui Ge TBA
(9:15-9:30 am) Gregory Berkolaiko (9:30-10:30 am) Nodal deficiency, spectral minimal partitions and the Dirichlet-to-Neumann map Coffee Break (10:30-11:00 am) Benjamin Schlein (11:00-12:00 pm) Correlation energy of weakly interacting Fermi gases Lunch Break	Coffee Break (10:30-11:00 am) Jens Marklof (11:00-12:00 pm) The low-density limit of the Lorenz gas: random vs periodic, classical vs quantum Lunch Break (12:00-2:00 pm) Sessions (2:00-3:30 pm) Quantum Information, Giedt 1003 Contributed talks	(10:30-11:00 am) Tatyana Shcherbina (11:00-12:00 pm) Supersymmetric approach to the deformed Ginibre ensemble Lunch Break (12:00-2:00 pm) Sessions (2:00-3:30 pm) Quantum Information, Giedt 1006 Anurag Anshu NLTS Hamiltonians from good quantum codes Contributed talks	Coffee Break (10:30-11:00 am) Tomaz Prosen (11:00-12:00 pm) Random Matrix Spectral Fluctuations in Quantum Lattice Systems Lunch Break (12:00-2:00 pm) Sessions (2:00-3:30 pm) Quantum Information, Giedt 1003 Pavel Panteleev Sheaf Codes	
(12:00-2:00 pm) Sessions (2:00-3:30 pm) Many Body, Giedt 1003 Amanda Young A bulk gap in the presence of edge states for a truncated Haldane pseudopotential Anton Kapustin Non-abelian Hall conductance as a homotopy invariant of gapped lattice systems Dynamical Systems, Giedt 1007 Yaiza Canzani Counting closed geodesics and improving Weyl's law for predominant sets of metrics Contributed talks Coffee Break (3:30-4:00 pm) Many Body, Giedt 1003 Contributed talks Dynamical Systems, Giedt 1007 Jared Wunsch Wave propagation on rotating cosmic string backgrounds Contributed talks Dynamical Systems, Giedt 1007 Jared Wunsch Wave propagation on rotating cosmic string backgrounds Contributed talks Banquet (5:30pm -) Math Courtyard	Dynamical Systems, Giedt 1007 Thibault Lefeuvre On the ergodicity of the frame flow Contributed talks New Topics, Math 1147 Marcello Porta Quantization of Edge Transport in Interacting Hall Systems John Klauder Advanced QMath Ready for Difficult Problems Coffee Break (3:30-4:00 pm) Sessions (4:00-5:30 pm) Quantum Information, Giedt 1003 Contributed talks Dynamical Systems, Giedt 1007 Alexis Drouot Topological insulators in semiclassical regime Contributed talks New Topics, Math 1147 Jon Dimock Ultraviolet Stability for Quantum Electrodynamics in d = 3 Contributed talks	Many-body, Giedt 1003 Nicolas Rougerie Two modes approximation for bosons in a double well potential Contributed talks Spectral Theory, Math 2112 Contributed talks Coffee Break (3:30-4:00 pm) Sessions (4:00-5:30 pm) Quantum Information, Giedt 1006 Xun Gao Limitations of Linear Cross-Entropy as a Measure for Quantum Advantage Contributed talks Many-body, Giedt 1003 Contributed talks Spectral Theory, Math 2112 Contributed talks	Quantum Information, Giedt 1003 Pavel Panteleev Sheaf Codes Contributed talks Disordered Systems, Giedt 1006 Alexandre Krajenbrink The crossover from the Macroscopic Fluctuation Theory to the Kardar-Parisi-Zhang equation controls the large deviations of diffusive systems Contributed talks New Topics, Math 1147 Isaac Kim Chiral Central Charge and Modular Commutator Simone Warzel Quantum Spin Glasses Spectral Theory, Math 2112 Contributed talks Coffee Break (3:30-4:00 pm) Quantum Information, Giedt 1003 Contributed talks Disordered Systems, Giedt 1006 Emma Bailey Large deviation estimates for CLTs in certain log-correlated fields Contributed talks New Topics, Math 1147 Michael Levin TBA	