		AQC 2024 Se	chedule		
Talk Title	Number	Name	Affiliation	Day	Time
Welcome and announcements	0	Kendon, Viv	University of Stratchlyde	Monday	09:25 - 09:30
Rydberg Blockade Revisited	Invited 3	Natalie Pearson	PASQAL	Monday	09:30 - 10:20
Computational supremacy in quantum simulation	11	King, Dr. Andrew	D-Wave Systems Inc.	Monday	10:20 - 10:45
				coffee	break
Entanglement growth from squeezing on the MPS manifold	2	Leontica, Sebastian	University College London	Monday	11:15 – 11:40
n-local catalysts to speed up quantum annealing	3	Ghosh, Dr. Roopayan	University College London	Monday	11:40 - 12:05
Approximate tensor network contractions for large unit-cells quantum annealers	4	Dziubyna, Anna Maria	Jagiellonian University in Kraków	Monday	12:05 – 12:30
				lunch	break
Classical outperforms quantum reverse annealing in ferromagnetic mean-field models	5	Baldwin, Christopher	Michigan State University	Monday	13:30 – 13:55
Using multiple XX-catalysts in quantum annealing to efficiently solve MWIS problems	6	Nutricati, Luca Armando	University College London	Monday	13:55 – 14:20
Coherent Compressed Sensor for L0-	_	Mastiyage Don, Sudeera			1.1.00 1.1.15
Regularised Compressed Sensing	7	Hasaranga Gunathilaka	Tokyo Institute of Technology	Monday	14:20 - 14:45
				coffee	break
				Manalay	15.00 10.00
Essentian local actions in superturn appropriate with				Monday	15:30 – 16:20
Escaping local optima in quantum annealing with XX-couplings	8	Feinstein, Natasha	University College London	Monday	09:55 – 10:20
Gate-based counterdiabatic driving with	0			lvionuay	09.33 - 10.20
complexity guarantees	9	van Vreumingen, Dyon	University of Amsterdam / QuSoft	Monday	10:20 - 10:45
Eigenpath traversal by Poisson-distributed phase					10.20 10.10
randomisation	10	Cunningham, Joseph		Monday	16:20 - 16:45
Civic Reception			Glasgow City Chambers	Monday	18:00 - 19:30
Coherence advancements for next-generation quantum technologies	Invited 2	Alexander Whiticar	D-Wave Systems Inc.	Tuesday	09:30 – 10:20
Quantum error mitigation in quantum annealing	1	Raymond, Dr Jack	D-Wave Systems Inc.	Tuesday	10:20 - 10:45
				coffee	break
Three- and four-body switchable coupler for superconducting qubits to implement the parity		Talk Cancelled			
encoding scheme	12	Miyazaki, Ryoji	NEC Corporation	Tuesday	11:15 - 11:40
Universal quantum computation using quantum annealing with the transverse-field Ising	10	Luceto Tolucelo:		T	11.10 10.05
Hamiltonian	13	Imoto, Takashi		Tuesday	11:40 - 12:05

AQC 2024 Schedule	
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Tight Lieb-Robinson Bound for approximation	1.4	Ducido Authur		Tuesday	10.05 10.00
ratio in Quantum Annealing	14	Braida, Arthur		Tuesday lunch	12:05 – 12:30 break
Coherent Flux Qubits for Quantum Annealing	15	López-núñez, David	Qilimanjaro/IFAE	Tuesday	13:30 - 13:55
A scalable 2-local architecture for quantum			Qilimanjaro Quantum Tech; University of		
annealing of all-to-all Ising models	16	Palacios, Ana	Barcelona	Tuesday	13:55 - 14:20
Quantum simulation of 1D-fermionic systems with Ising Hamiltonians	17	Werner, Matthias	Qilimanjaro Quantum Tech; University of Barcelona	Tuesday	14:20 - 14:45
Efficient sampling in a glassy phase using a machine-learning-assisted Markov Chain Monte					
Carlo Method	18	Miyamoto, Seiya		Tuesday	14:45 - 15:10
				coffee	break
Scaling Advantage in Approximate Optimization with Quantum Annealing	Invited 1	Daniel Lidar (remote)	USC	Tuesday	15:40 - 16:30
Poster session 1 (odd numbers present)					16:30 - 18:00
AVaQus project progress	Invited 4	Pol Forn Díaz	IFAE, Spain	Wednesday	09:30 – 10:20
Amorphous quantum magnets in a two-					
dimensional Rydberg atom array	19	Vovorsh, Dr Joseph	PASQAL		10:20 - 10:45
				coffee	break
Demonstration of weighted graph optimisation on a Rydberg atom array using local light-shifts	20	Pritchard, Prof. Jonathan	University Of Strathclyde	Wednesday	11:15 – 11:40
Parametric dependence of effective local fields of Kerr parametric oscillators	21	Yamaji, Dr. Tomohiro	NEC Corporation	Wednesday	11:40 – 12:05
Investigating scaling properties for quantum annealing to solve the Fermi-Hubbard model using the kinetic energy part as the driving Hamiltonian	22	Vyas, Kunal Prakash	Forshungszentrum Juelich	Wednesday	12:05 – 12:30
				lunch	break
Free afternoon: lab tours (sign up for lab tours at registration desk)			Coaches to dinner leave 18:00 sharp		13:30 - 18:00
Conference dinner		Burrell Collection	Pollock Country Park		19:00 - 22:15
Quantum Simulation on a 3x3 Superconducting Qudit Lattice	Invited 5	Sarah Muschinske	MIT	Thursday	09:30 - 10:20
Motivating continuous-time quantum optimisation without recourse to the adiabatic theorem	23	Banks, Robert	University College London	Thursday	10:20 - 10:45
				coffee	break
A thermodynamic approach to optimization in complex quantum systems	24	Chancellor, Dr Nick	Newcastle University	Thursday	11:15 – 11:40

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Implementing a cooling protocol on a programmable quantum annealer	25	Humar, Gregor	Jožef Stefan Institute	Thursday	11:40 - 12:05
Evaluation and analysis of hybrid method using quantum annealing machine and non-quantum type Ising machine	26	Kikuchi, Dr. Shuta	Keio University	Thursday	12:05 – 12:30 break
Finding Spin Glass Ground States Using Multi- stage Quantum Walks	27	Hopkins, Mr Asa	University Of Strathclyde	Thursday	13:30 – 13:55
Advantage of multi-stage quantum walks over QAOA as approximations of quantum annealing	28	Gerblich, Mr Lasse		Thursday	13:55 – 14:20
Parameter-range setting of annealing optimization based on local optimal solutions	29	Sugita, Yusuke	Hitachi, Ltd.	Thursday	14:20 – 14:45 break
Relaxed Momentum Annealing Theory and Applications	30	Okuyama, Takuya		Thursday	15:30 - 15:55
Compressed space engineering for constrained combinatorial optimization	31	Shirai, Dr. Tatsuhiko	Waseda University	Thursday	15:55 – 16:20
Poster session 2 (even numbers present)					16:30 - 18:00
Adiabatic Superconductor Logic: Recent Progress Toward Qubit Controllers	Invited 6	Naoki Takeuchi (remote)	AIST	Friday	09:30 – 10:20
Building a Model Learning Method by Reducing the Number of Training Data for Factorization Machine with Annealing	32	Nakano, Mr. Mayumi	Keio University	Friday	10:20 - 10:45
				coffee	break
A hybrid quantum-classical approach for inference on restricted Boltzmann machines	33	Kālis, Mārtiņš	University Of Latvia	Friday	11:15 – 11:40
Diverse solutions via quantum annealing leads to the discovery of diverse material compositions	34	Haba, Renichiro		Friday	11:40 – 12:05
Optimized QUBO formulation methods for quantum computing	35	De Santis, Dario	Scuola Normale Superiore Di Pisa	Friday	12:05 – 12:30
				lunch	break
Load balancing for high performance computing using quantum annealing	36	Rathore, Omer	Durham University	Friday	13:30 – 13:55
Quantum optimization with linear Ising penalties for customer data science	37	Mirkarimi, Puya	Durham University	Friday	13:55 – 14:20
Digitized Counterdiabatic Quantum Computing	38	Hegade, Narendra N.	Kipu Quantum	Friday	14:20 - 14:45
Descharge				coffee	break
Panel session				Friday	15:30 - 16:30
Conference close				Friday	16:30 - 17:00