

Monday		
9:00-9:15	Opening	
9:15-10:00	Chris Quintana (Google)	Progress towards building a superconducting NISQ processor
10:00-10:25	Frank Wilhelm-Mauch (Saarland)	Understanding and engineering decoherence for quantum annealers
10:25-10:50	David Ferguson (Northrop Grumman)	Requirements for Non-Stoquasticity in Superconducting Circuits
10:50-11:15	Coffee	
11:15-12:00	Matthias Troyer (Microsoft)	Quantum annealing from academic research to real-world applications
12:00-12:25	Andrew King (DWave)	Dynamics of quantum and classical simulations of a quantum magnet
12:25-12:50	Masayuki Ohzeki (Tohoku)	Breaking limitation of quantum annealer in solving optimization problem under constraints
12:50-14:15	Lunch	
14:15-15:00	Cyrus Hirjibehedin (Lincoln-Labs)	Prototyping enhanced capabilities for next-generation quantum annealers
15:00-15:25	Mauricio Reis Filho (DWave)	Next Generation Quantum Computing System
15:25-15:50	Hedayat Alghassi (CMU)	Graver Bases via Quantum Annealing with Application to Non-linear Integer Programs
15:50-16:20	Coffee	
16:20-16:45	Clemens Daska (Innsbruck)	Designing ground states of Hopfield networks for quantum state preparation
16:45-17:10	Michael Jarret (Perimeter)	Adiabatic Optimization without heuristics

Tuesday		
9:00-9:45	Alessandro Ciani (Delft)	Hamiltonian Quantum Computing with Superconducting Qubits
9:45-10:10	Marek Rams (Krakow)	Approximate tensor networks contraction for spin-glass problems and its applications
10:10-10:35	Helmut Katzgraber (Microsoft)	Is analog quantum annealing doomed?
10:35-11:00	coffee	
11:00-11:45	Sergey Novikov (Northrop Grumman)	Enabling new directions in superconducting quantum annealing
11:45-12:10	Ita Hen (USC)	Quantum annealing with non-stoquastic interactions: Promising paths and likely dead ends
12:10-12:35	Isil Ozfidan (DWave)	Demonstration of nonstoquastic Hamiltonian in coupled superconducting flux qubits
12:35-14:00	Lunch	
14:00-14:45	Viv Kendon (Durham)	Continuous-time quantum computing with quantum walks and hybrid algorithms
14:45-15:10	Guillaume Verdon (Google)	A Quantum Approximate Optimization Algorithm for continuous problems
15:10-15:35	Adrian Lupascu (Waterloo)	Adaptive quantum annealing using continuous weak measurements
15:35-16:00	coffee	
16:00-16:25	Gregory Quiroz (John Hopkins)	A Filter Function Approach to Noise Filtering for Adiabatic Quantum Control
16:25-16:50	Peter Schumacher (Saarland)	Gap-independent cooling and hybrid quantum-classical annealing
16:50-17:15	K. Birgitta Whaley (Berkeley)	Continuous Quantum Error Correction for Quantum Annealing

Wednesday		
9:00-9:45	Milad Marvian (MIT)	Error suppression for adiabatic quantum computation
9:45-10:10	Masoud Mohseni (Google)	A Quantum Genetic Algorithm
10:10-10:35	Bradley Lackey (Microsoft)	A belief propagation algorithm based on domain decomposition
10:35-11:00	Coffee	
11:00-11:45	Ahmed Omran (Harvard)	Many-body dynamics and entanglement in Rydberg atom arrays
11:45-12:10	Andreas Hartmann (Innsbruck)	Rapid counter-diabatic and inhomogeneous sweeps in lattice gauge adiabatic quantum computing
12:10-12:35	Christoph Roch (LMU)	Q-Nash
12:35-14:00	Lunch	
14:00-14:25	Nicholas Chancellor (Durham)	Robust optimisation with quantum annealing and the domain wall encoding
14:25-14:50	Shunji Matsuura (1QBit)	VanQver: The Variational and Adiabatically Navigated Quantum Eigensolver
14:50-15:15	Annarita Giani (GE)	Solving Asset Sustainment with Quantum Annealers
15:15-17:00	Postersession 1	
	Dinner	

Thursday		
9:00-9:45	Giuseppe Santoro (SISSA)	Quantum Annealing: a journey through Digitalization, Quantum Control, and hybrid Quantum Variational schemes
9:45-10:10	Daniel Lidar (USC)	Analog errors in quantum annealing: doom and hope
10:10-10:35	Gioele Consani (UCL)	Effective qubit Hamiltonian extraction for superconducting circuits by use of the Schrieffer-Wolf transformation
10:35-11:00	Coffee	
11:00-11:45	Richard Harris (DWave)	Wayfinders on the road to computational advantage
11:45-12:10	Hannu Reittu (VTT)	Quantum annealing approach for graph community detection and regularity testing
12:10-12:35	Daniel Tennant (Waterloo)	Progress Towards High-Degree, Long Range Coupling Between Superconducting Flux Qubits
12:35-14:00	Lunch	
14:00-14:45	Keisuke Fujii (Kyoto)	Applications of noisy-intermediate-scale quantum computing for machine learning and quantum simulation
	Groupphoto	
15:15-17:00	Postersession 2	

Friday		
9:00-9:45	Hayato Goto (Toshiba)	Quantum bifurcation machine (QbM) and QbM-inspired classical Ising machine
9:45-10:10	Shuntaro Okada (DENSO)	Efficient iterative method solving hard constraints in quantum annealing
10:10-10:35	Davide Venturelli (NASA)	Annealing schedule variations on the D-Wave 2000Q machines on native and embedded problems
10:35-11:00	Coffee	
11:00-11:45	Catherine McGeoch (DWave)	What do we know about quantum performance?
11:45-12:10	Walter Vinci (NASA)	Training Deep Generative Models with Quantum Annealing for Unsupervised and Semi-supervised Learning
12:10-12:35	Pooya Ronagh (1QBit)	Structured Prediction Using Approximate Gibbs Samplers
	End of Conference	