

Programme

	Mon, 18 Sep	Tue, 19 Sep	Wed, 20 Sep	Thu, 21 Sep	Fri, 22 Sep
09:00-09:45	Invited: Žurek	Invited: Paternostro	Invited: Andrzejczuk	Invited: Jozsa	Invited: Horodecki
09:45-10:10	2 x 25 min talks	2 x 25 min talks	4 x 15 min talks	2 x 25 min talks	2 x 25 min talks
10:35-11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00-11:45	Invited: Saxena	Invited: Chruściński	Invited: Rudnicki	Invited: Fawzi	Invited: Zimboras
11:45-12:10	2 x 25 min talks	2 x 25 min talks	4 x 15 min talks	2 x 25 min talks	2 x 25 min talks
12:35-14:15	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:15-15:00	Invited: Riedel	Invited: Müstecaplıoğlu	Trip	Invited: Sanpera	Invited: Anza
15:00-16:00	3 x 20 min talks	3 x 20 min talks		25 + 2 x 20 min talks	2 x 20 min talks
16:00-16:30	Coffee break	Coffee break		Coffee break	Final remarks & coffee break
16:30-17:15	Invited: Cincio	Poster session		Invited: Girolami	
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19:30-22:00				Conference dinner	

Monday, 18 September

08:50-09:00	Opening remarks
09:00-10:00	Invited: Wojciech Żurek - TBA
10:00-10:25	Emanuel Schwarzhans - Quantum measurements and equilibration: the emergence of objective reality via entropy maximisation
10:25-10:50	Giorgio Zicariv - Quantum probing of spontaneous collapse mechanisms
10:50-11:15	Coffee break
11:15-12:00	Invited: Avadh Saxena - TBA
12:00-12:25	Belfakir Abdessamad - Estimating and predicting dynamics of quantum systems using probability distribution function and Klauder coherent states
12:25-12:50	Casper Gyurik - Quantum algorithms for topological data analysis
12:50-14:15	Lunch break
14:15-15:00	Invited: Jess Riedel - TBA
15:00-15:20	Sophie Engineer - Measurement equilibration hypothesis: constructing a set of objectifying observables
15:20-15:40	Moises Bermejo Moran - Bounds on uncertainty relations
15:40-16:00	Fereshte Shahbeigi - When to/not to quantumly simulate a stochastic matrix
16:00-16:30	Coffee break
16:30-17:15	Invited: Lukasz Cincio - TBA

Tuesday, 19 September

09:00-09:45	Invited: Mauro Paternostro - TBA
09:45-10:10	Patryk Lipka-Bartosik - Fundamental limits on anomalous energy flows in correlated quantum systems
10:10-10:35	Alec Boyd - Quantum thermodynamic machine learning from maximum work production
10:35-11:00	Coffee break
11:00-11:45	Invited: Dariusz Chruściński - TBA
11:45-12:10	Felix Binder - Unitary quantum work extraction under operational constraints
12:10-12:35	Christopher Chubb - Quantum dichotomies and coherent thermodynamics beyond first-order asymptotics
12:35-14:15	Lunch break
14:15-15:00	Invited: Özgür E. Müstecaplıoğlu - TBA
15:00-15:20	Ouchni Fatiha - Induced-magnetic Field quantum phase transition in coupled spin-1/2 two-leg ladders
15:20-15:40	Alessandro Summer - Calculating the many-body density of states on a digital quantum computer
15:40-16:00	Aslı Tuncer - Quantum superposition and entanglement in spin-glass systems
16:00-16:30	Coffee break
16:30-18:00	Poster session

Wednesday, 20 September

09:00-09:45	Invited: Dominik Andrzejczuk - TBA
09:45-10:00	Fadwa Benabdallah - Witnessing quantum correlations in a hybrid qubit-qutrit system under intrinsic decoherence
10:00-10:15	Nouhaila Innan - Exploiting quantum variational classifier for enhanced classification performance
10:15-10:30	Ikken Nada - Enabling controlled quantum teleportation between discrete and continuous physical systems
10:30-10:45	El Ayachi Fadwa - Detection of quantum entanglement transitions with quantum machine learning
10:45-11:15	Coffee break
11:15-12:00	Invited: Łukasz Rudnicki - TBA
12:00-12:15	Chaimae Chirou - Maximum efficiency at given power for experimentally-accessible quantum thermoelectrics
12:15-12:30	Hicham Ait Mansour - InAs three quantum dots as working substance for quantum heat engine
12:30-12:45	Youssef Khouja - Impact of dipole-dipole interaction on quantum steering in Markovian environment
12:45-13:00	Bouafia Zakaria - Effects of intrinsic decoherence on quantum coherence and correlations between spins within a two-dimensional honeycomb lattice graphene layer system
13:00-14:30	Lunch break
14:30-17:00	Trip

Thursday, 21 September

09:00-09:45	Invited: Richard Jozsa - TBA
09:45-10:10	Dax Enshan Koh - An expressive ansatz for low-depth quantum optimisation
10:10-10:35	Amaria Javed - Soliton based quantum computation
10:35-11:00	Coffee break
11:00-11:45	Invited: Omar Fawzi - TBA
11:45-12:10	Hamid Tebyanian - Semi-device Independent Quantum Randomness Generation
12:10-12:35	Simon Milz - Hidden quantum memory effects and genuinely quantum processes
12:35-14:15	Lunch break
14:15-15:00	Invited: Anna Sanpera - TBA
15:00-15:25	Marta Maria Marchese - Large baseline optical imaging assisted by single photons and linear quantum optics
15:25-15:45	Gerard Anglès Munné - Engineering holography with stabilizer graph codes
15:45-16:05	Arkin Tikku - Circuit depth versus energy in topologically ordered systems
16:05-16:30	Coffee break
16:30-17:15	Invited: Davide Girolami - TBA
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19:30-22:00	Conference dinner

Friday, 22 September

09:00-09:45	Invited: Paweł Horodecki - TBA
09:45-10:10	Shane Dooley - Generating multipartite entanglement in quantum many-body systems with scars
10:10-10:35	Augusto Smerzi - Genuine multipartite nonlocality with causal-diagram
10:35-11:00	Coffee break
11:00-11:45	Invited: Zoltan Zimboras - TBA
11:45-12:10	Eduardo Serrano-Ensástiga - Maximum entanglement and absolute separability of symmetric states under unitary transformations
12:10-12:35	Adam Sawicki - A random matrix model for random approximate t-designs
12:35-14:15	Lunch break
14:15-15:00	Invited: Fabio Anza - TBA
15:00-15:20	Albert Rico Andres - Entanglement detection with trace polynomials
15:20-15:40	Sheikh Sazim - Quantum advantage in random access codes using single d-level system
15:40-16:00	Final remarks & coffee break