

Superconducting Quantum Devices 2016

Friday 9th September 2016
Small Lecture Theatre
Cavendish Laboratory
University of Cambridge, JJ Thomson Avenue, Cambridge, CB2 9HQ

Programme

10.30 Refreshments available

11.00 Talk 1

Richard George, Lancaster University
Superconducting Quantum Circuit for Single Microwave Photon Generation

11.30 Talk 2

Alexandre Zagoukin, University of Loughborough
Lasing and Superradiant Soliton State of Matter in Quantum Metamaterials

12.00 Talk 3

Mikko Möttönen, Aalto University
Quantum circuit refrigerator

12.30 Talk 4

Teresa Hoenigl-Decrinis, RHUL
Quantum Wave Mixing

13.00 Lunch and Posters

14.45 Talk 5

Dan Moinard, University of Cambridge
Nonlinear Dynamical Behaviour of Superconducting Micro-Resonators

15.15 Talk 6

Paul Warburton, UCL
Going Beyond Two-Body Interactions in a Superconducting Flux Qubit Annealer

15.45 Talk 7

Chaitanya Joshi, York Centre for Quantum Technologies
Qubit-flip-induced cavity mode squeezing in the strong dispersive regime of the quantum Rabi model

16.15 Talk 8

Michael Thompson, Lancaster University
Graphene SQUID with tunable Josephson junctions

16.45 Talk 9

Niladri Banerjee, University of Loughborough
Controlled generation of odd-frequency triplets by spin-orbit coupling

17.15 End

Please could speakers include a brief overview of the interests and goals of their research group. Talks should be 25 mins + 5 mins for questions. Participants, if they have not already done so, should register for attendance or further poster contributions at www.sqd.org.uk by Friday 2nd September 2016. All posters submitted are accepted.