

## List of STSMs to date for Action MP1209

Name	Sending Institute	Host Institute	Title	Time	Budget
Andre Xuereb	University of Malta, MT	Queens University Belfast, UK	Synchronisation in CV Systems and Thermodynamics	16.11.2013 to 17.12.2013	€800
Michele Campisi	University of Augsburg, DE	Scuola Normale Superiore, Pisa, IT	Geometric magnetism in open quantum systems: Application to Cooper pair pumping	09.12.2013 to 21.12.2013	€935
Tony Apollaro	Queens University Belfast, UK	Universitat, Erlangen, DE	Thermodynamics in the quantum regime	10.01.2014 to 10.02.2014	€1200
Antonio Alecce	Università degli Studi di Padova, Padova, IT	IFISC, Palma de Mallorca, ES	Quantum thermodynamics and correlations in spin systems	17.02.2014 to 31.03.2014	€2500
Gianluca Francica	Università della Calabria, IT	Queens University Belfast, UK	Thermodynamics in the dynamical Casimir effect	10.03.2014 to 09.05.2014	€2500
Luis Correa	Universidad de La Laguna, ES	University of Nottingham, UK	Minimally-controlled quantum refrigerators	01.03.2014 to 01.05.2014	€1800
Gonzalo Manzano Paule	Universidad Complutense de Madrid, ES	University of Bristol, UK	Fluctuations in the smallest heat engines	16.04.2014 to 01.05.2014	€1400
Antonio Alecce	Università degli Studi di Padova, Padova, IT	IFISC, Palma de Mallorca, ES	Dissipative processes in quantum thermodynamics	28.04.2014 to 02.05.2014	€750
Karen Hovhannisyan	ICFO – The Institute of Photonic Sciences, ES	University College London, UK	Work extraction from quantum systems	26.04.2014 to 09.05.2014	€1093
Ruari McCloskey	Queens University Belfast, UK	Università degli Studi di Palermo, IT	Exploring thermodynamics in collision-based models for open-system dynamics	01.05.2014 to 10.05.2014	€1000
Janet Anders	University of Exeter, UK	ETH Zürich, CH	To discuss Single shot thermodynamics & Landauer's principle and network organisation.	07.04.2014 to 14.04.2014	€920
Nicolino Lo Gullo	Università degli studi di Padova, IT	IFISC, Palma de Mallorca, ES	Thermal rectification in spin chains	28.04.2014 to 03.05.2014	€660
Philipp Kammerlander	ETH Zürich, CH	University of Exeter, UK	Thermodynamics of quantum measurement	03.07.2014 to 16/07/2014	€ 1,330
Gabriele de Chiara	Queen's University Belfast, UK	Universidad de Buenos Aires, AR	Quantum work production in ion crystals	03.07.2014 to 06/08/2014	€ 2,150
Sina Salek	University of Bristol, UK	FU Berlin, DE	Thermodynamics in the quantum regime	01/08/2014 to 30/09/2014	€ 2,500
Christian Van den Broeck	Hasselt University, BE	Universitat Illes Balears, ES	Stochastic thermodynamics for collision processes in the relaxation approximation	07/09/2014 to 14/09/2014	€ 970
Steve Campbell	Queen's University Belfast, UK	Universitat Autònoma de Barcelona, ES	Thermal Quantum Correlations in Spin Chains	15/09/2014 to 02/10/2014	€ 1,500
Rafael Sanchez	Instituto de Ciencia de Materiales de Madrid, ES	RWTH Aachen, DE	AC and non-local work generation in quantum systems	18/01/2015 to 23/01/2015	€ 950
Robert Whitney	Universite de Grenoble & CNRS, FR	RWTH Aachen, DE	AC and non-local work generation in quantum systems	18/01/2015 to 23/01/2015	€ 850
Marti Perarnau Llobet	ICFO – The Institute of Photonic Sciences, ES	Freie Universitat Berlin, DE	Work and correlations	13/10/2014 to 26/10/2014	€ 1,110.00
Simon Pigeon	Queen's University Belfast, UK	University of Malta, MT	Thermodynamics of trajectories of open quantum harmonic oscillator	21/10/2014 to 04/11/2014	€ 860.00
Raam Uzdin	The Hebrew University, IL	Oxford University, UK	Heat engine equivalence, operational heat and non Lindblad evolution in quantum heat engines	23/01/2015 to 24/02/2015	€ 1,460.00
Christian Van den Broeck	Hasselt University, BE	IFISC, Universitat Illes Balears, ES	Micro-canonical stochastic engines: classical and quantum operation.	09/03/2015 to 16/03/2015	€ 790

Bjorn Sothmann	University of Geneva, CH	CNR-SPIN, University of Genova, IT	Thermoelectric detection of energy relaxation in the quantum Hall regime	12/04/2015 to 17/04/2015	€ 720
Rafael Sanchez	Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC), ES	CNR-SPIN, University of Genova, IT	Thermoelectric detection of energy relaxation in the quantum Hall regime	12/04/2015 to 17/04/2015	€ 870
Marco Pezzutto	Instituto de Telecomunicações and Instituto Superior Tecnico, Lisboa, PT	Queen's University Belfast, UK	Quantum non-Markovianity, correlations and thermalization	13/05/2015 to 22/05/2015	€ 935
Martin Kliesch	Freie Universitat Berlin, DE	Institute of Photonic Sciences, ES	Correlations and Thermalization	07/04/2015 to 15/04/2015	€ 984.00
Thomas Fogarty	University of Saarland, DE	Queen's University Belfast, UK	Entropy Production and Particle Interactions in a Cold Atomic Gas	25/05/2015 to 29/05/2015	€ 600.00
Giovanni Vacanti	Institut Neel, FR	The Abdus Salam International Centre for Theoretical Physics (ICTP), IT	The work cost of keeping states with coherences out of equilibrium: developments and applications	04/05/2015 to 08/05/2015	€ 650.00
Rebecca Schmidt	University of Nottingham, UK	University of Turku, FI	Different notions of non-Markovianity in the quantum thermodynamic setting	07/04/2015 to 18/04/2015	€ 500.00
David E Bruschi	University of York, York, UK	Department of Physics, University of Malta, Msida, MT	The role of Quantum Thermodynamics in cosmological processes	02/05/2016 to 16/05/2016	€ 1,100
Felix Binder	Oxford University, Oxford, UK	ICTP, Trieste, IT	CPTP strokes for heat engines	29/11/2015 to 16/01/2016	€ 2,193
Matteo Lostaglio	Imperial College London, London, UK	Hebrew University of Jerusalem, Jerusalem, IL	Quantum signatures in thermodynamics	15/03/2016 to 29/03/2016	€ 1,600
André Xuereb	University of Malta, Msida, MT	University of Aarhus, Aarhus, DK	Synchronisation in optomechanical systems	31/08/2015 to 04/09/2015	€ 750
Armen Allahverdyan	Yerevan Physics Institute, Yerevan, Armen	The Hebrew University of Jerusalem, Jerusalem, Israel	Quantum Engines and Fluctuation Relations	23/11/2015 to 30/11/2015	€ 1,240
John Goold	The Abdus Salam International Center for Theoretical Physics, Trieste, Italy	Center for Quantum Technologies, Singapore	Optimizing quantum batteries	13/11/2015 to 28/11/2015	€ 1,200
Gabriele De Chiara	Queens University, Belfast, Ireland	Singapore University of Technology and design, Singapore	Thermodynamics in the Quantum Regime	29/02/2016 to 11/03/2016	€1000
Alexia Auffeves	Institut Néel CNRS, Grenoble, France	University of Exeter, Exeter, UK	A thermodynamic approach to quantum measurement	21/03/2016 to 25/03/2016	€700
Mr Jose Joaquin Alonso Castaneda	Universität Erlangen Nürnberg, Erlangen, Germany	Queen's University Belfast, NI	Single-trajectory non-equilibrium thermodynamics of superconducting systems	01/03/2016 to 31/03/2016	€1700
Steve Campbell	Queens University, Belfast, UK	Università degli Studi di Milano, Milan (IT)	Quenching Many-Body Quantum Systems: Spotlighting Dynamical Phase Transitions	04/04/2016 to 09/04/2016	€ 720
Fabio Anza	University of Oxford, UK	International Centre for Theoretical Physics, Trieste (IT),	Observable thermalisation	17/03/2016 to 25/03/2016	€ 650
David Bruschi	University of York	GAP-Optique, University of Geneva,	Towards relativistic and quantum thermal machines	17/04/2016 to 24/04/2016	€ 700

		Switzerland			
Janet Anders	University of Exeter	Prof. Benjamin Huard, Ecole Normale Supérieure, Paris, France	Measuring Coherence Work with Superconducting Qubits	04/04/2016 to 10/04/2016	€ 720
Michael Moeckel	University of Applied Sciences Aschaffenburg, Germany	Hebrew University of Jerusalem, Israel	To establish the analogy between quantum heat engines and thermalization mechanisms	24/03/2016 to 31/03/2016	€ 1,070
Dr Hamed Mohammady	Instituto de Telecomunicações, Lisbon, Portugal	The Institute of Photonic Sciences, Barcelona (ES)	The role of potential and actual work in quantum thermodynamics	11/04/2016 to 17/04/2016	€ 890
Mischa Woods	University College London, UK	University of Geneva, Switzerland	Full autonomy of quantum thermodynamic devices	04/04/2016 to 15/04/2016	€ 1,257
David E Bruschi	University of York, York, UK	Department of Physics, University of Malta, Msida, MT	The role of Quantum Thermodynamics in cosmological processes	02/05/2016 to 16/05/2016	€ 1,100
Fabio Anza	University of Oxford, United Kingdom	ICTP, Trieste, Italy	Observable thermalisation	04/09/2016 to 17/09/2016	€ 915
Raam Uzdin	Hebrew University, Jerusalem, Israel	Simone Gasparinetti, ETH, Zürich, Switzerland	Quantum Thermodynamics experiments in superconducting devices	16/08/2016 to 24/08/2016	€ 1,390
Christian Van Den Broeck	Universiteit Hasselt, Diepenbeek, Belgium	Universitat Illes Balears, Palma de Mallorca	Fractal superposition in the probability density of stochastic entropy production: classical or quantum signature?	04/09/2016 to 24/09/2016	€ 800
Giacomo Guarneri	National Institute for Nuclear Physics (INFN), Pisa, Italy	Queens University Belfast, UK	Landauer's principle in non-equilibrium open quantum systems	29/09/2016 to 08/10/2016	€ 700
Luis Alberto Correa Marichal	The University of Nottingham, Nottingham, United Kingdom	Hebrew University of Jerusalem, Israel	Towards a unified assessment of irreversibility for quantum heat devices	01/11/2016 to 13/11/2016	€ 940
Arshag Danageozian	Yerevan Physics Institute, Yerevan, Armenia	ICFO, Barcelona, Spain	Fluctuations of quantum work: Trading coherence for the first law of thermodynamics	12/02/2017 to 18/02/2017	€ 770
Senaida Hernández	ICFO - The Institute of Photonic Sciences, Castelldefels, Spain	Ignacio Cirac, Max-Planck-Institut für Quantenoptik, Garching, Germany	Locality of temperature at a finite temperature phase transition	15/01/2017 to 03/02/2017	€ 1,475
Fatemeh Hajiloo	Chalmers University of Technology, GÖTEBORG, Sweden	RWTH Aachen University, Aachen, Germany	Using scattering theory to design the phase dependence of thermal transport in superconducting structures	03/02/2017 to 13/02/2017	€ 980
Marti Perarnau Llobet	Max-Planck Institute for Quantum Optics, Garching, Germany	Université de Genève, Geneva, Switzerland	Implementations and theoretical foundations of quantum thermodynamics	22/01/2017 to 28/01/2017	€ 430
Marco Pezzutto	Instituto de Telecomunicações, Lisboa, Portugal	Queen's University Belfast, Belfast, UK	Quantum non-Markovianity, divisibility and structured environments - Implications for the Landauer Bound	13/12/2016 to 23/12/2016	€ 677
Karen Hovhannisyan	ICFO - The Institute of Photonic Sciences, Castelldefels, Spain	University of Exeter, Exeter (UK)	Is macroscopic thermal bath a macroscopic thermal bath?	24/04/2017 to 29/04/2017	€ 870
Steve Campbell	Università degli Studi di Milano, Milano, Italy	Queen's University Belfast, Belfast	Quantum Correlations and the Emergence of Criticality	31/03/2017 to 05/04/2017	€ 300
Mischa Woods	University College London, London (UK)	ETH Zurich, Zurich, Switzerland	Quantum clocks and Quantum thermodynamics	19/03/2017 to 24/03/2017	€ 974
				<b>TOTAL</b>	<b>€64,000</b>

