

Workshop

Open questions on energy transport & conversion in nanoscale quantum systems

Scientific Programme

Thursday 15th November 2018

Salle de conférence FRUMAM
Site Saint-Charles, Marseille

12h45-13h45: Welcoming participants

13h45: Workshop Opening

Chairman: Luis A. CORREA

14h-14h40: Robert WHITNEY

Closed questions on energy transport and conversion in nanoscale quantum systems

14h40-15h10: David SANCHEZ

Thermoelectrics and heat in hybrid superconductor-quantum dot junctions

15h10-15h40: Rosa LOPEZ

Anomalous Joule law in the adiabatic dynamics of a quantum dot in contact with normal-metal and superconducting reservoirs

15h40-16h: coffee break

16h-17h: flash-talks of poster session

17h-19h: Poster session and discussions

Friday 16th November 2018

Chairman: Robert WHITNEY

8h30-9h: Bayan KARIMI

Measuring heat current and its fluctuations in superconducting quantum circuits

9h-9h30: Tomáš Mančal

Excitation Transfer in Photosynthetic Pigment Protein Complexes

9h30-10h: coffee break

10h-10h30: Luis A. CORREA

Quantum-coherent weakly driven thermal machines can be simulated classically

10h30-11h: Nathalie VAST

Hydrodynamic heat transport regime in bismuth: a theoretical viewpoint

11h-12h: Poster session & discussions

12h-14h: Lunch

Chairman: Fabienne MICHELINI

14h-14h30: Samy MERABIA

Interfacial heat transfer at the nanoscale: from Kapitza resistance to ultra near-field heat transfer

14h30-15h: Geneviève FLEURY

Simulating time dependent thermoelectric transport with the t-Kwant software

15h-15h30: Robert WHITNEY

A non-equilibrium system as a demon

15h30-16h: coffee break

16h-17h: Discussions and closing remarks

▪ Scientific and organizing committee

Associate Professors

Fabienne MICHELINI, IM2NP Marseille

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