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# Conference on Nanophononics, Bridging Statistical Physics, Molecular Modeling and Experiments | (smr 3302)

## Monday 24 June 2019

### - Adriatico Guest House - (Lower Level 1) (10:30-12:30)

time	title	presenter
10:30	Administrative and Financial formalities	

### - Adriatico Guest House - Kastler Lecture Hall (14:00-21:00)

time	title	presenter
14:00	Invited talk 1 "Electro-thermal phenomena in layered van der Waals materials"	KEIVAN ESFARJANI
14:45	Invited talk 2 "Engineering and measuring thermal transport in nanowires"	ILARIA ZARDO
15:30	Coffee break	
16:00	Invited talk 3 "Nonlinear oscillator chains with long-range interactions coupled to thermal reservoirs"	STEFANO LEPRI
16:45	Contributed talk 1 "Particular thermal transport phenomena in nanostructures and nanostructured materials"	KONSTANTINOS TERMENTZIDIS
17:10	Contributed talk 2 "Thermoelectric efficiency of molecular junctions"	CARMINE ANTONIO PERRONI
19:30	Welcome reception	

# Tuesday 25 June 2019

## - Adriatico Guest House - Kastler Lecture Hall (09:00-19:00)

time	title	presenter
09:00	Invited talk 4 "That kind of motion we call heat: control of the heat current, symmetry breaking and Onsager relations"	GIULIO CASATI
09:45	Invited talk 5 "Thermal rectification in the ballistic limit in nanostructured 2D ribbons"	OLIVIER BOURGEOIS
10:30	Group photo	
10:35	Coffee break	
11:00	Invited talk 6 "Heat and Hypersound Transport in 2D Phononic Crystals"	BARTŁOMIEJ GRACZYKOWSKI
11:45	Invited talk 7 "Noise-induced nonlinear dynamics of a driven nanomechanical resonator"	EVA WEIG
12:30	Lunch break	
14:00	Invited talk 8 "Non-diffusive thermal conduction in nanotubes and nanowires"	CHIH-WEI CHANG
14:45	Invited talk 9 "Unified theory of thermal transport in crystals and glasses & viscous heat hydrodynamics"	MICHELE SIMONCELLI
15:30	Coffee break	
16:00	Contributed talk 3 "Tuning thermal and mechanical properties of porous 2D materials by pore topology engineering"	ALI RAJABPOUR
16:25	Contributed talk 4 "Thermal conductivity of semiconductor bulk-unconventional phases: the role of anharmonicity and phase space"	MARTÍ RAYA MORENO
16:50	Poster session	

## Wednesday 26 June 2019

### - Adriatico Guest House - Kastler Lecture Hall (09:00-12:30)

time	title	presenter
09:00	Invited talk 10 "Heat Transport Mediated by Phonons, Electrons, and Spins in Low-Dimensional Systems"	LI SHI
09:45	Invited talk 11 "Molecular Dynamics Simulations of low-dimensional Materials: Accurate Force Field Generation and Investigation of Phononic Properties"	CEM SEVIK
10:30	Coffee break	
11:00	Invited talk 12 "Phononics learns photonics for heat transport control"	MASAHIRO NOMURA
11:45	Invited talk 13 "Phonon transport in graphene-BN superlattices: Coherence and localization"	LUIZ FELIPE PEREIRA

# Thursday 27 June 2019

## - Adriatico Guest House - Kastler Lecture Hall (09:00-17:10)

time	title	presenter
09:00	Invited talk 14 "Heat transport in 2D phononic Crystals and thermal effects in 1D optomechanical nanobeams"	CLIVIA SOTOMAYOR-TORRES
09:45	Invited talk 15 "Toward realization of zero-dimensional heat transfer"	KEIJI SAITO
10:30	Coffee break	
11:00	Invited talk 16 "Ab-initio simulation of heat transport in liquids and anharmonic or disordered solids"	STEFANO BARONI
11:45	Invited talk 17 "From glasses to nanocomposites: the dramatic effect of elastic heterogeneities on phonon dynamics and thermal transport"	VALENTINA GIORDANO
12:30	Lunch break	
14:00	Invited talk 18 "Randomness and Localization Effects in Heat Conduction"	SEBASTIAN VOLZ
14:45	Invited talk 19 "Towards an all-electric control of the heat flux"	RICCARDO RURALI
15:30	Coffee break	
16:00	Invited talk 20 "Interfacial thermal transport: from Kapitza to near field heat transfer"	SAMI MERABIA
16:45	Contributed talk 5 "Stressed anharmonic chains in 3D within the framework of the nonlinear fluctuating hydrodynamic theory"	MARIA FLORENCIA CARUSELA

## Friday 28 June 2019

### - Adriatico Guest House - Kastler Lecture Hall (09:00-12:30)

time	title	presenter
09:00	Invited talk 21 "Radiative Thermal Memristor Based on the Thermal Hysteresis of VO <sub>2</sub> "	JOSE ORDONEZ-MIRANDA
09:45	Contributed talk 6 "First principles study of the effects of confinement and surface on the phonon optical modes and optical properties of porous Silicon Carbide"	ALEJANDRO TREJO BAÑOS
10:10	Contributed talk 7 "Monte Carlo simulation of the new generation transistors with low-dimensional material channels"	ZAHRA SHOMALI
10:35	Coffee break	
11:05	Invited talk 22 "homogeneous nonequilibrium molecular dynamics and spectral decomposition methods for phonon transport with many-body potentials"	ZHEYONG FAN
11:50	Contributed talk 8 "Ballistic phonon transport in nanowires"	MILO YARO SWINKELS
12:15	Closing	