PROGRAM 1/2

Thursday 11 October 2018				
8:30-8:45	**Registration**	CNRS Délégation Rhône Auvergne, 2 Avenue Albert Einstein, 69100 Villeurbanne		
8:45-9:00	**Wellcome Talk and GDRE "Thermal Nanosciences and NanoEngineering" history**			
9:00-10:40	**Session 1:**	**Ballistic Transport, chaiman S. Merabia**		
	9:00-9:25	S1.1	**R. Anufriev**	Ballistic heat transport in Si nanowires at diferent length-scales and Temperature
	9:25-9:50	S1.2	**X. Alvarez**	Collective and hydrodynamic behavior in thermal transport
	9:50-10:15	S1.3	**J. Maire**	The impact of heat on optomechanical cavities' properties
	10:15-10:40	S1.4	**M. Markov**	Hydrodynamic heat transport in bismuth: a theoretical viewpoint
10:40-11:00	**Coffee Break**			
11:00-12:55	**Session 2:**	**Thermal Radiation I, chairmain R. Vaillon**		
	11:00-11:25	S2.1	**F-J. Jaramillo**	Passive cooling of surfaces using colloidal crystals as infrared thermal blackbodies
	11:25-11:50	S2.2	**I. Latella**	Radiative Heat Shuttling
	11:50-12:15	S2.3	**A. Ott**	Magnetooptical thermal Hall effect, angular momentum, and Spin
	12:15-12:40	S2.4	**C. Kathmann**	Limitations of the kinetic theory to describe the nearfield heat exchanges in manybody systems
	12:40-13:05	S2.5	**E. Blandre**	Optical design, fabrication and characterization of microstructured surfaces for radiative cooling applications
13:05-14:00	**Lunch**			
14:00-15:40	**Session 3:**	**Conduction in disordered and nanocomposite materials, chairwoman I. Zardo**		
	14:00-14:20	S3.1	**DeSousaOliveira**	Molecular dynamics simulations in disordered nanoporous materials
	14:20-14:40	S3.2	**A. Tanguy**	WavePackets transport and Thermal Conductivity in Amorphous solids
	14:40-15:00	S3.3	**S. Merabia**	Enhancing the thermal transport properties of soft materials using nanoparticles
	15:00-15:20	S3.4	**V. Giordano**	Disorder dominated thermal transport in chalcogenide-based nanocomposites: a microscopic investigation
	15:20-15:40	S3.5	**F. Lund**	The phonon-dislocation interaction: A contemporary approach
15:40-16:00	**Flash Poster Session**	2 minutes per poster, 1-2 pages		
16:00-17:00	**Posters and coffee**			
17:00-18:30	**Presentation of Current Projects (EU/others) and discussions**			
18:30-20:00	Free time, enjoy a Lyon style "apero"			
20:00-23:00	**Dinner**	Maison Villemanzy, 25 Montée Saint-Sébastien, 69001 Lyon		

Friday 12 October 2018				
8:30-10:10	**Session 4:**	**Nanomaterials: non-equilibrium and relaxation, chairman X. Alvarez**		
	8:30-8:55	S4.1	**A. Fontana**	Fluctuations in a NESS: is there a universal behavior ?
	8:55-9:20	S4.2	**M. Luisier**	Modelling of Self-Heating in Nanoscale Devices
	9:20-9:45	S4.3	**R. Maioli**	Ultrafast Thermo-Optical Dynamics of Metal Nano-objects
	9:45-10:10	S4.4	**J. Paterson**	Thermal conductivity measurements of nanostructured thin flms
10:10-10:30	**Coffee Break**			
10:30-11:45	**Session 5:**	**Thermal Radiation II, chairman P. Ben-Abdallah**		
	10:30-10:55	S5.1	**T. Takahashi**	Photo-assisted Scanning Probe Microscopy on Cu(In,Ga)Se2 Solar Cells
	10:55-11:20	S5.2	**C. Lucchesi**	Near-field radiative heat transfer experiments for thermophotovoltaic conversion: temperature and material dependence
	11:20-11:45	S5.3	**A. Alwakil**	Thermal Radiation Illusion using Transformation Optics and Mantle Cloaks
11:45-13:00	**Session 6:**	**Thermoelectrics and thermionics, chairwoman V. Giordano**		
	11:45-12:10	S6.1	**R. Bachelet**	Decreasing thermal conductivity by atomic engineering in epitaxial oxide flms for enhanced integrated thermoelectricity
	12:10-12:35	S6.2	**M. Prunnila**	Thermionics and phonon blocking by semiconductorsuperconductor junctions
	12:35-13:00	S6.3	**M. Bescond**	Evaporative electron cooling in asymmetric double barrier semiconductor heterostructure
13:00-14:00	**Lunch**			
14:00-15:30	**Discussion on output of GDRe and on future networks/actions**			
15:30	**Closing remarks**			

Last meeting of the CNRS GDRe (2015-2018) on "Thermal Nanosciences and NanoEngineering"

PROGRAM 2/2

Poster Session		Thuesday 11 October, 15:40-17:00
P1	**J. Amrit**	Thermal conductivity measurements of a 200 µm-thick Silicon sample between 0.3 K and 2 K
P2	**E. Guen**	Thermal conductivity measurements using resistive scanning thermal micro and nanoprobes
P3	**P. Guiraud**	Modelling of Thermoacoustic Efect for Sound Generation
P4	**G. Hamaoui**	Nano-scale thermophysical characterization using a high frequency photothermal radiometry technique
P5	**F. Lamberti**	Phonon engineering in GaAs/AlAs Micropillars
P6	**H. Luo**	From mean-free path to attenuation lengths in a 2D solid with circular inclusions
P7	**M. Markov**	Breakdown of Herring's processes in cubic semiconductors for sub-Thz longitudinal acoustic phonons
P8	**M. Markov**	Semi-metals as potential thermoelectric materials
P9	**A. Metjari**	Thermal Measurements for Nanomaterials using Scanning Thermal Microscopy
P10	**B. Pottier**	Thermo-optical bistability of micro-cantilevers
P11	**D. Singhal**	Highly-Dense Forest of Nanowires for Thermoelectrics
P12	**W. Zhao**	Towards the Investigation of Thermal Properties of Nano-Objects in a TEM