

MC14: Micro Nanoscale Heat Transport Management

Organisateurs : A. Belarouci, S. Merabia & S. Gomes

Jeudi 25 août – 15h00- 18h30

15:00 - 15:30	Caractérisation thermique multi-échelle par radiométrie photothermique infrarouge
INVITÉ	N. Horny <i>Université de Reims, France.</i>
MC14-1	
15:30 - 15:45	Ultrafast thermo-optical dynamics of single supported gold nanodisks
MC14-2	C. Panais , N. Lascoux, R. Rouxel, M. Diego, P. Maioli, F. Vialla, F. Rossellab, S. Marguet, F. Banfi, F. Vallée, N. Del Fatti and A. Crut <i>ILM – Université de Lyon, France, clement.panais@univ-lyon1.fr</i>
15:45 - 16:00	Applying near-field radiative heat transfer to improve thermophotovoltaic energy harvesting
MC14-3 /	M. Thomas , C. Lucchesi, P-O Chapuis <i>CETHIL – Université de Lyon, France, mathieu.thomas@insa-lyon.fr</i>
16:00 - 16:15	Understanding thermal transport in GeTe thin films and impact of nanostructuring
MC14-4	R. Cravero , M. Tomelleri, J. Paterson, P. Noé, F. Hippert, S. Pailhès, O. Bourgeois, and V. Giordano <i>Institut Néel – Université de Grenoble, France, roderic.cravero@neel.cnrs.fr</i>
16:15 - 16:30	Measurement of thermal boundary conductance by mean of a Modulated Photothermal Radiometry technic (MPTR)
MC14-5	Q. Pompidou , R. Sheikha, M. Chirtoca, and N. Horny <i>Université de Reims, France. quentin.pompidou@univ-reims.fr</i>
16h30-17h00 Coffee break	

17:00 - 17:30 INVITÉ MC14-6	<p>Modeling the influence of structural defects on the thermal transport properties of 2D materials</p> <p>C. Adessi, S. Pecorario, S. Thebaud, and G. Bouzerar <i>ILM – Université de Lyon, christophe.adessi@univ-lyon1.fr</i></p>
17:30 - 17:45 MC14-7	<p>Dependent scattering prevails in colloidal suspensions and aerogels. How to account for it in the radiative transfer equation</p> <p>R. Yalcin, L. Pilon <i>Université de Poitiers, France, refet.ali.yalcin@univ-poitiers.fr</i></p>
17:45 - 18:00 MC14-8	<p>Investigation of nanostructured materials by Scanning Thermal microscopy</p> <p>N. Chaaoui, M. Jandah, P. Al Alam and N. Trannoy <i>Université de Reims, France. nathaly.chaaoui@univ-reims.fr</i></p>
18:00 - 18:15 MC14-9	<p>3D FEM modeling of second-generation KNT probe response under vacuum and air conditions</p> <p>S. Douri, N. Fleurence, J. Hameury, and S. Gomes <i>CETHIL – Université de Lyon, France. sarah.douri@lne.fr</i></p>
18:15 – 18:30 MC14-10	<p>Atomistic modeling of interfacial thermal transport across semiconductor-metal interfaces</p> <p>M. De San Feliciano, S. Merabia, and C. Adessi <i>ILM – Université de Lyon, France. michael.de-san-feliciano@univ-lyon1.fr</i></p>

Posters

MC14-11	<p>Characterization of a new type of micro thermal anemometer for turbulence measurement</p> <p>B. Baradel, O. Léon, A. Giani, F. Méry, and P. Combette <i>ONERA/DMPE, Université de Toulouse, . baptiste.baradel@onera.fr</i></p>
MC14-12	<p>AlGaAs-Based Near-Field Thermophotonic Devices: Making Use of Nanoscale Radiative Transfer and Electroluminescence for Innovative Solid-State Heat Engine</p> <p>J. Legendre and P-O Chapuis <i>CETHIL – Université de Lyon, France, julien.legendre@insa-lyon.fr</i></p>

MC14-13

Local thermal investigation of polymer-carbon filler composites by use of Scanning Thermal Microscopy

W. Sun, G. Hamaoui, T. Evgin, A. Turgut, M. Micusik, M. Omastova, and S. Gomes
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MC14-14

Near-field thermophotonic refrigerator: a numerical study

T. Châtelet, J. Legendre, P-O Chapuis, and O. Merchiers
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