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MC7 Probing liquid properties in confined geometries. Opening Remarks and Colloquium Program

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► **To cite this version:**

Laurence Noirez. MC7 Probing liquid properties in confined geometries. Opening Remarks and Colloquium Program. CMD29 - the 29th General conferences of the Condensed Matter Division, IOP; European Physical Society, Aug 2022, Manchester, United Kingdom. hal-03764422

HAL Id: hal-03764422

<https://hal.science/hal-03764422>

Submitted on 30 Aug 2022

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CMD29

21-26 August 2022

Manchester Central Convention Complex, Manchester, UK



IOP Institute of Physics



MC7 “Probing Liquid Properties in Confined Geometries”

Room: Exchange 9

Wednesday, 24th August (afternoon)

14:00 – 14:15 Opening Remarks - Welcome Word, L. Noirez, K. Trachenko

14:15 Chairman: Prof. Fernando Bresme

14:15 – 14:45 Prof. Patrick Huber (invited) - *Water confined in nanopores: What do we know about it and what is it good for?*

14:45 – 15:00 Dr. Thierry Ondarçuhu - *Wetting at the nanoscale: molecular desorption induced by a moving contact line*

15:00 - 15:15 Dr. Ross Stewart - *New opportunities for liquid neutron spectroscopy at ISIS*

15:15 - 15:30 Dhanadeep Dutta - *Water in nano-confinement* ONLINE

15:30 - 16:30 POSTER SESSION

16:30 Chairman: Prof. Patrick Huber

16:30 – 17:00 Prof. Denis Bartolo (invited) *Flocking fluids*

17:00 – 17:15 Dr. Fausto Martelli - *Water under soft and hard confinement*

17:15 – 17:30 Dr. Amirreza Gholivand - *Blood memory effect in 3D microconfined structure*

17:30 – 17:45 Laura Gallardo - *Switchable Wetting Properties in Polypyrrol-Porous Silicon Systems*

17:45 - 18:00 Mr Sri Ganesh Subramanian (Manchester Univ.) - *Self-Propulsion, Evaporation, and Encapsulation Dynamics of an Aqueous Micro-drop over a Deformable Viscoelastic Liquid Film*

MC7 “Probing Liquid Properties in Confined Geometries”

Room: Exchange 9

Thursday, 25th, August

11:30 Chairman: Dr. Ross Stewart

11:30 – 12:00 Dr. DeLong YU (invited) - *Vibrational Properties Beyond Debye Model*

12:00 – 12:15 Dr. Vanessa Coulet - *Confinement of sulfur in porous carbon matrices*

12:15 – 12:30 Said Pashayev - *Experimental methods for nanofluidics: focus on sealing technology for delicate nanomaterials.*

12:30 - 14:00 LUNCH

14:00 Chairman: Prof. Fernando Bresme

14:00 – 14:30 Prof. Simone Napolitano (invited) - *Slow liquid dynamics can facilitate fast equilibration of glasses*

14:30 – 14:45 Dr. Massimo Pica Ciamarra - *Long-wavelength fluctuations and dimensionality crossover in confined liquids*

14:45 – 15:00 Prof. Robin Cortes-Huerta - *Multi-Scale, Non-Equilibrium Molecular Dynamics Simulations in the Adaptive Resolution Method*

15:00 – 15:15 Aidan Chapman - *Polarisation of water under thermal fields: the effect of the molecular dipole and quadrupole moments*

15:30 – 16:00 POSTERS

Chairman: Prof. Simone Napolitano

16:30 – 17:00 Prof. F. Bresme (invited) - *Thermal orientation in fluids and soft matter*

17:00 – 17:15 Prof. Alvaro Domínguez - *Diffusion in colloidal monolayers: bridging the gap between two and three spatial dimensions*

17:15 – 17:30 Sujeet Dutta - *Wetting/drying mechanisms associated with nanoconfined salt solutions: an optical reflectance study on vapour phase imbibition and adsorption*

17:30 – 17:45 Lars Dammann - *Simulation of imbibition-induced strain in oriented nanoporous silica (MCM-41) on the single pore scale*