

5th International Workshop on DYNAMICS IN CONFINEMENT

11-13
Oct 2022

PROGRAMME

MONDAY 10 OCTOBER 2022

18h00-21h00 [Come-together buffet & Registration](#)

TUESDAY 11 OCTOBER 2022

8h30-12h00 **Session 1 :**

8h30-8h45 [Director's welcome](#)

8h50-9h20 **Schönhals** **Andreas** Confinement effects and multiple glassy dynamics for a homologous series of triphenylene-based columnar liquid crystals

9h20-9h40 **Kolmangadi** **Mohamed Aejaz** Confinement induced relaxations and phase behavior of a nanoconfined ionic liquid crystal

9h40-10h00 **Filippov** **Andrei** Layers of ionic liquids with nitrate ions enclosed between micrometer-spaced glass plates

10h00-10h30 [Coffee break](#)

10h30-11h00 **Khoder** **Hassan** How the behavior of cations within interfacial layer can influence the water dynamics in confined media

11h00-11h20 **Ducroix** **Alice** Dynamics of water inside boehmite suspensions probed by NMR techniques

11h20-11h40 **Picard** **Cyril** Heterogeneous Microscopic Dynamics of Intruded Water in a Superhydrophobic Nanoconfinement: Neutron Scattering and Molecular Modeling

11h40-12h00 **Patil** **Shivprasad** Translational diffusion of a fluorescent tracer molecule in nanoconfined water

12h00-13h30 [Lunch](#)

13h30-17h00 **Session 2 :**

13h30-14h00 **Adrjanowicz** **Karolina** The effect of surface conditions on the glass-transition dynamics of poly(phenylmethylsiloxane) confined in cylindrical nanopores

14h00-14h20 **Guldin** **Stefan** Block Copolymer Assembled Mesoporous Materials Architectures for Biosensing Applications

14h20-14h40 **Gutfreund** **Philipp** Mechanics of buried thin polymer films revealed by a combined full analysis of the off-specular and specular neutron reflection

14h40-15h00 **Sharma** **Aakash** Dependence of local dynamics on the chain length of grafted molecules

15h00-15h30 [Coffee break](#)

15h30-16h00 **Launois** **Pascale** Structuration, dynamics and diffusion of water in hydrophilic nanotubes

16h00-16h20 **Marry** **Virginie** Water dynamics in a saponite: coupling molecular dynamics and NSE experiments

16h20-16h40 **Allemand** **Aymeric** Anomalous ionic transport in subnanometric water films

16h40-17h00 **Rebiscoul** **Diane** Experimentally probing ionic solutions in single-digit nanoconfinement

17h00-... [Posters & Beverages](#)

WEDNESDAY 12 OCTOBER 2022

8h30-12h00 **Session 3 :**

8h30-9h00 **Foglia** **Fabrizia** Smart membranes for energy conversion: a neutron approach

9h00-9h20 **Kreuer** **Klaus-Dieter** Selective Ion Transport through Ion-Exchange-Membranes for Fuel Cells, Electrolyzers and Flow Batteries: The effect of "Ion Sieving"

9h20-9h40 **Dutta** **Sujeet** Wetting/drying mechanisms associated with nanoconfined salt solutions: an optical reflectance study on vapour phase imbibition and adsorption

9h40-10h00 **Arbiv** **Gavriel** Modulating The Physico-Chemical Properties Of Water By Confinement In Hydrophobic NanoPores

10h00-10h30 [Coffee break](#)

10h30-11h00 **Floudas** **George** Equilibrium and non-equilibrium dynamics of polymers confined in nanopores

11h00-11h20 **Cabrillo** **Carlos** Metastable Confinement of Molecular Hydrogen in Double Wall Carbon Nanotubes bundles

11h20-11h40	Bousige	Colin	Insight into friction in carbon nanotubes: guest-host interactions and thermal-driven pinning and unpinning in nanopeapods
11h40-12h00	Fouquet	Peter	Hydrogen mobility in layered materials: MoS ₂ and Carbon
12h00-13h30	Lunch		
13h30-17h00	Session 4 :		
13h30-14h00	Napolitano	Simone	Confinement effects on the Slow Arrhenius Processes (SAP) observed in polymer melts
14h00-14h20	Tian	Jiting	Are strongly confined colloids good models for two dimensional liquids?
14h20-14h40	Martínez-Pedrero	Fernando	Magnetic Colloids Adsorbed At Fluid Interfaces Acting As Interfacial Swimmers And Colloid Adsorption Probes
14h40-15h00	Yu	Yuanxi	The ω^3 scaling of the vibrational density of states in quasi-2D nanoconfined solids
15h00-15h30	Coffee break		
15h30-16h00	Weik	Martin	Dynamics of amyloid fibers and their hydration water as studied by neutron scattering and molecular dynamics simulations
16h00-16h20	Peters	Judith	Confinement due to crowding in biological cells
16h20-16h40	Kadlec	Filip	Factors governing ferroelectric ordering of water molecules confined in beryl
16h40-17h00	Krzystyniak	Matthew	Interplay Between Local Structure and Nuclear Dynamics in Tungstic Acid: a Neutron Scattering Study
17h00-17h30	Coffee break		
17h30-18h30	Session 5 :		
17h30-17h50	Bacanu	George	Spectroscopy of C60 Endofullerenes
17h50-18h10	Aouane	Mohamed	Dynamics in Confinement: a study of CH ₄ @C60
18h10-18h30	Yu	Kai Bin	Does Confinement Enable Methane Hydrate Growth at Low Pressures? Insights from Molecular Dynamics Simulations
19h00-...	Workshop Dinner		

THURSDAY 13 OCTOBER 2022

9h00-12h00	Session 6 :		
9h00-9h30	Richter	Dieter	Physics with Bernhard Frick - a reminiscence on exciting times
9h30-10h00	Arbe	Arantxa	Polymers, neutrons and much more: three decades together with Bernhard
10h00-10h30	Coffee break		
10h30-11h00	Alba-Simionesco	Christiane	Confined fluids properties by quasi-elastic neutron scattering with Bernhard Frick
11h00-11h30	Morineau	Denis	Views on confined fluids resulting from a 20-year collaboration with Bernhard Frick
11h30-12h00	Zorn	Reiner	Quasielastic neutron scattering experiments on confined glass-forming liquids
12h00-13h30	Lunch		
14h00-...	Social activity & Departure		