

Sunday July 16 - Afternoon

14:00 – 19:00

Registration

19:00 – 21:00

Welcome Reception

Monday July 17 - Morning

8:45 – 9:00 Linhart Hall			Opening		
9:00 – 9:45 Linhart Hall, P1 G. Tarjus Supercooled liquids and the glass transition Chair: F. Caupin					
9:45 – 10:00			Break		
10:00 – 11:10 Kosovel Hall Session 8: Supercooled Liquids, Glasses, Gels Chair: D. Coslovich		10:00 – 11:10 Linhart Hall Session 5: Colloids Chair: A. Gambassi		10:00 – 11:10 Štih Hall Session 1: Ionic Liquids, Liquid Metals Chair: G. Kahl	
10:00 – 10:30 K8.1 P. Charbonneau Recent advances on the glass problem		10:00 – 10:30 K5.1 C. Dellago How van der Waals interactions determine the unique properties of water: insights from neural network based computer simulations		10:00 – 10:30 K1.1 A. A. Kornyshev Liquid-based tuneable optical metamaterials: New scenarios navigated by theory	
10:30 – 10:50 O8.1 H. Shiba Unveiling dimensionality dependence of glassy dynamics: 2D infinite fluctuation eclipses inherent structural relaxation		10:30 – 10:50 O5.1 J. Loehr Topologically protected multiparticle transport of magnetic colloids		10:30 – 10:50 O1.1 H. Bartsch Insights on the diversity of smectic phases in ionic liquid crystals	
10:50 – 11:10 O8.2 C. Zhang Dynamical and structural signatures of the glass transition in emulsions		10:50 – 11:10 O5.2 A. Caciagli Optical trapping of colloids at a liquid-liquid interface		10:50 – 11:10 O1.2 J. Forsman An asymmetric primitive model approach to ionic liquids	
11:10 – 12:30			Coffee break and posters (Topics 1, 3, 7, 8, 10)		
12:30 – 14:00			Lunch break		

Monday July 17 - Afternoon

<p>14:00 – 14:45 Linhart Hall, P2 K. Stebe Assembly in confined soft matter hosts Chair: N. Wilding</p>		
<p>14:45 – 15:00 Break</p>		
<p>15:00 – 16:30 Kosovel Hall Session 10: Active Matter Chair: R. van Roij</p>	<p>15:00 – 16:30 Linhart Hall Session 5: Colloids Chair: S. Dietrich</p>	<p>15:00 – 16:30 Štih Hall Session 7: Confined Fluids, Interfacial Phenomena Chair: M. Matsumoto</p>
<p>15:00 – 15:30 K10.1 H. Löwen Microswimmers in complex environments</p>	<p>15:00 – 15:30 K5.2 P. Tierno Engineering of frustration in colloidal artificial ices realized on microfeatured grooved lattices</p>	<p>15:00 – 15:30 K7.1 Q. Chen Direct imaging of crystallization kinetics and interfacial fluctuations of nanoparticle superlattices</p>
<p>15:30 – 15:50 O10.1 J. Simmchen Interactions of chemical microswimmers with microscale objects</p>	<p>15:30 – 15:50 O5.3 J. McBride Localised plasticity in crystals formed by wireframe particles</p>	<p>15:30 – 15:50 O7.1 P. Tarazona Three-dimensional structures of electrolyte aqueous solutions near a solid surface: 3D-AFM experiments and DFT results</p>
<p>15:50 – 16:10 O10.2 J. Stenhammar Pressure and phase equilibria in active brownian particles</p>	<p>15:50 – 16:10 O5.4 C. Evers Mad particles self-assemble into virus-like microcapsules</p>	<p>15:50 – 16:10 O7.2 N. A. M. Araujo How does shape anisotropy affect the aggregation of colloidal particles at the edge of an evaporating drop</p>
<p>16:10 – 16:30 O10.3 I. Buttinoni Confined and complex: When shape and interfaces modify active trajectories</p>	<p>16:10 – 16:30 O5.5 A. Nikoubashman Fabrication of homogeneous and structured polymeric nanoparticles through rapid solvent exchange</p>	<p>16:10 – 16:30 O7.3 L. G. MacDowell Observation of a roughening transition on the surface of ice</p>
<p>16:30 – 17:00 Coffee break</p>		
<p>17:00 – 18:00 Kosovel Hall Session 8: Supercooled Liquids, Glasses, Gels Chair: A. Furukawa</p>	<p>17:00 – 18:00 Linhart Hall Session 5: Colloids Chair: H. Diamant</p>	<p>17:00 – 18:00 Štih Hall Session 7: Confined Fluids, Interfacial Phenomena Chair: B. Laird</p>
<p>17:00 – 17:20 O8.3 R. Bowles Structure and dynamics in glassy nanoparticles</p>	<p>17:00 – 17:20 O5.6 P. Bartlett Direct measurement of sub-Debye-length forces between charged colloids</p>	<p>17:00 – 17:20 O7.4 I. Martínez Energy transfer between colloids via critical interactions</p>
<p>17:20 – 17:40 O8.4 M. Fuchs Emergence of long-ranged strain and stress correlations at the glass transition</p>	<p>17:20 – 17:40 O5.7 J. Everts Non-touching charged colloidal particles near an oil-water interface</p>	<p>17:20 – 17:40 O7.5 E. Guillerm Negative pressure amplification by precipitation in a confined droplet and consequences for paleotemperatures reconstruction</p>
<p>17:40 – 18:00 O8.5 D. Coslovich Catching up with experiments: Equilibrium simulations of supercooled liquids beyond laboratory time scales</p>	<p>17:40 – 18:00 O5.8 A. Gambassi Nonadditivity of critical Casimir forces</p>	<p>17:40 – 18:00 O7.6 C.M. Rohwer Transient Casimir Forces from Quenches in Thermal and Active Matter</p>

Tuesday July 18 - Morning

<p>9:00 – 9:45 Linhart Hall, P3 O. Lavrentovich Command of swimming bacteria by liquid crystals with topological defects and patterns Chair: M. Wilson</p>		
<p>9:45 – 10:00 Break</p>		
<p>10:00 – 11:10 Kosovel Hall Session 8: Supercooled Liquids, Glasses, Gels Chair: M. Fuchs</p>	<p>10:00 – 11:10 Linhart Hall Session 3: Liquid Crystals Chair: J. Yamamoto</p>	<p>10:00 – 10:50 Štih Hall Session 1: Ionic Liquids, Liquid Metals Chair: J. Forsman</p>
<p>10:00 – 10:30 K8.2 J. Rottler Cooperative dynamics and memory effects in the deformation and flow of amorphous materials</p>	<p>10:00 – 10:30 K3.1 T. López-León Patterning the surface of chiral nematic shells via anchoring in moderation</p>	<p>10:00 – 10:30 K1.2 B. Rotenberg Structural transitions at ionic liquid interfaces</p>
<p>10:30 – 10:50 O8.6 F. Bomboi A biocompatible re-entrant DNA hydrogel</p>	<p>10:30 – 10:50 O3.1 M. Dijkstra Colloidal liquid crystals: How flexible needles become obese, biaxial bricks schizophrenic, and chiral rods twisted</p>	<p>10:30 – 10:50 O1.3 J. Comtet Nanoscale capillary freezing of ionic liquids confined between metallic interfaces and the role of electronic screening</p>
<p>10:50 – 11:10 O8.7 V. Trappe Interplay of coarsening and aging impacting the mechanical properties of a colloidal gel</p>	<p>10:50 – 11:10 O3.2 E. Grelet From soft to hard rod behavior in liquid crystalline suspensions of sterically stabilized colloidal filamentous particles</p>	
<p>11:10 – 12:30 Coffee break and posters (Topics 1, 3, 7, 8, 10)</p>		
<p>12:30 – 14:00 Lunch break</p>		

Tuesday July 18 - Afternoon

<p>14:00 – 14:45 Linhart Hall, P4 R. Dullens Two-dimensional melting of colloidal hard spheres</p> <p>Chair: R. Evans</p>		
<p>14:45 – 15:00 Break</p>		
<p>15:00 – 16:30 Kosovel Hall Session 8: Supercooled Liquids, Glasses, Gels</p> <p>Chair: H. Tanaka</p>	<p>15:00 – 16:30 Linhart Hall Session 5: Colloids</p> <p>Chair: T. Araki</p>	<p>15:00 – 16:30 Štíh Hall Session 10: Active Matter</p> <p>Chair: E. Spohr</p>
<p>15:00 – 15:30 K8.3 P. Royall Fivefold symmetry and the fate of liquids</p>	<p>15:00 – 15:20 O5.9 J. Russo Two-dimensional melting in binary hard disks</p>	<p>15:00 – 15:20 O10.4 A. Morin Flocking through disorder</p>
<p>Break</p>		
<p>15:30 – 15:50 O8.8 H. Schöpe Correlation between dynamical and structural heterogeneities in metastable hard-sphere fluids</p>	<p>15:30 – 15:50 O5.10 G. Soligno Self-assembly of cubes into 2D hexagonal and honeycomb lattices by hexapolar capillary interactions</p>	<p>15:30 – 15:50 O10.5 D. Levis Synchronization and pattern formation in active matter</p>
<p>15:50 – 16:10 O8.9 J. de Graaf Fluid flow speeds up the gravitational collapse of colloidal gels</p>	<p>15:50 – 16:10 O5.11 E. Roldan Brownian Carnot engine</p>	<p>15:50 – 16:10 O10.6 D. Vågberg Flowing crystals – the liquid-solid transition of monodisperse active particles</p>
<p>16:10 – 16:30 O8.10 F. Zhang Temporarily arrested state in protein solutions studied using ultra-small angle X-ray scattering</p>	<p>16:10 – 16:30 O5.12 A. Scotti Ultra low crosslinked microgels: How soft are soft particles?</p>	<p>16:10 – 16:30 O10.7 J. Arlt Painting with bacteria</p>
<p>16:30 – 17:00 Coffee break</p>		
<p>17:00 – 18:00 Kosovel Hall Session 3: Liquid Crystals</p> <p>Chair: M. Mazza</p>	<p>17:00 – 18:00 Linhart Hall Session 7: Confined Fluids, Interfacial Phenomena</p> <p>Chair: P. Tarazona</p>	<p>17:00 – 18:00 Štíh Hall Session 10: Active Matter</p> <p>Chair: I. Pagonabarraga</p>
<p>17:00 – 17:20 O3.3 L. Metselaar Nematic tactoids in an electric field</p>	<p>17:00 – 17:20 O7.7 E. Charlaix Dynamic flow of confined poly-electrolyte solutions: Interfacial friction and complex slip length</p>	<p>17:00 – 17:20 O10.8 J. Gomez-Solano Dynamics of self-propelled colloidal particles in viscoelastic fluids</p>
<p>17:20 – 17:40 O3.4 J. Yamamoto Phantasmagoric liquid crystals - continuous isotropic-nematic transition driven by shape transformation of micelles</p>	<p>17:20 – 17:40 O7.8 M. Janssen Temperature dependence and thermal response of electric double layer capacitors</p>	<p>17:20 – 17:40 O10.9 J. Ignés-Mullol Control of active nematics by means of addressable soft interfaces</p>
<p>17:40 – 18:00 O3.5 J. Jeong Chiral symmetry breaking of confined lyotropic chromonic liquid crystals: Effects of saddle-splay elastic modulus and dopants</p>	<p>17:40 – 18:00 O7.9 Y. Uematsu Power-law electrokinetic behavior as a direct probe of effective surface viscosity</p>	<p>17:40 – 18:00 O10.10 R. Cerbino Reawakening of motility in glassy confluent epithelia</p>

Wednesday July 19 - Morning

<p>9:00 – 9:45 Linhart Hall, P5 D. Vlassopoulos Tuning the performance of polymers: On the role of thickness, associations and free ends Chair: K. Kremer</p>		
<p>9:45 – 10:00 Break</p>		
<p>10:00 – 11:10 Kosovel Hall Session 3: Liquid Crystals Chair: J. Fukuda</p>	<p>10:00 – 11:10 Linhart Hall Session 5: Colloids Chair: C.-H. Chang</p>	<p>10:00 – 11:10 Štih Hall Session 4: Polymers, Polyelectrolytes, Biopolymers Chair: C. Holm</p>
<p>10:00 – 10:30 K3.2 I. Smalyukh Static and out-of-equilibrium behavior of topological solitons in partially ordered fluids</p>	<p>10:00 – 10:30 K5.3 G. Volpe Experimental studies of critical Casimir forces in colloidal suspensions</p>	<p>10:00 – 10:30 K4.1 T. Knowles Kinetics of protein aggregation</p>
<p>10:30 – 10:50 O3.6 M. Nikkhou Annihilation dynamics of topological monopoles in nematic liquid crystal</p>	<p>10:30 – 10:50 O5.13 E. Lattuada Can colloidal swarms settle faster than isolated particles?</p>	<p>10:30 – 10:50 O4.1 D. Mukherji Drunken soft matter: Co-non-solvency based design of smart multi-responsive materials in aqueous alcohol mixtures</p>
<p>10:50 – 11:10 O3.7 V. Raghunathan Hexatic phase of self-assembled micellar polymers</p>	<p>10:50 – 11:10 O5.14 D. Kraft Self-assembly dynamics of flexible colloidal molecules</p>	<p>10:50 – 11:10 O4.2 I. Coluzza Artificial chaperonins</p>
<p>11:10 – 12:30 Coffee break and posters (Topics 2, 4, 5, 6, 9, 11)</p>		
<p>12:30 – 14:00 Lunch break</p>		

Wednesday July 19 - Afternoon

<p>14:00 – 14:45 Linhart Hall, P6 E. Frey Self-organization and collective phenomena in active biopolymer fluids Chair: M. Müller</p>		
<p>14:45 – 15:00 Break</p>		
<p>15:00 – 16:30 Kosovel Hall Session 9: Driven Systems, Rheology, Nanofluidics Chair: A. Würger</p>	<p>15:00 – 16:30 Linhart Hall Session 4: Polymers, Polyelectrolytes, Biopolymers Chair: C. N. Likos</p>	<p>15:00 – 16:30 Štih Hall Session 4: Biological and Biomimetic Fluids Chair: R. Netz</p>
<p>15:00 – 15:30 K9.1 S. Fielding Edge fracture in complex fluids</p>	<p>15:00 – 15:30 K4.2 K. C. H. Daoulas Top-down coarse-grained descriptions of polymeric liquid crystals. A special case: Maier- Saupe models</p>	<p>15:00 – 15:30 K11.1 G. Gompper Blood cells und blood flow – cell deformation, shear thinning, and cell sorting</p>
<p>15:30 – 15:50 O9.1 S. Leitmann Nonlinear microrheological response to a step force</p>	<p>15:30 – 15:50 O4.3 C. Holm The influence of charged-induced variations in the local permittivity on the static and dynamic properties of polyelectrolyte solutions</p>	<p>15:30 – 15:50 O11.1 S. Shimobayashi Direct observations of transition dynamics from macro- to micro-phase separation in asymmetric lipid bilayers</p>
<p>15:50 – 16:10 O9.2 C. Ybert Nanoscale dynamics versus surface interactions: What dictates osmotic transport?</p>	<p>15:50 – 16:10 O4.4 F. Roosen-Runge On scenarios for dynamical arrest in protein solutions</p>	<p>15:50 – 16:10 O11.2 A. Sengupta Active shape control as an adaptive strategy in phytoplankton</p>
<p>16:10 – 16:30 O9.3 S. Jabbari-Farouji The role of intercrystalline tie chains on plastic deformation of semicrystalline polymers</p>	<p>16:10 – 16:30 O4.5 A. Archer Quasicrystal formation in soft matter and a "crystal-liquid" state</p>	<p>16:10 – 16:30 O10.11 F. Woodhouse Active matter logic for autonomous microfluidics</p>
<p>16:30 – 17:00 Coffee break</p>		
<p>17:00 – 18:00 Liquid Matter Prize lecture, Linhart Hall J. Klein Liquids under confinement: From reptation to osteoarthritis Chair: D. Frenkel</p>		
<p>20:00 – 23:00 Conference dinner</p>		

Thursday July 20 - Morning

<p>9:00 – 9:45 <i>Linhart Hall</i>, EPJE de Gennes Lecture, P7 R. Golestanian Collective chemotaxis in active matter Chair: C. Bechinger</p>		
<p>9:45 – 10:00 Break</p>		
<p>10:00 – 11:10 <i>Kosovel Hall</i> Session 10: Active Matter Chair: M. Dijkstra</p>	<p>10:00 – 11:10 <i>Linhart Hall</i> Session 5: Colloids Chair: W. Kegel</p>	<p>10:00 – 11:20 <i>Štih Hall</i> Session 6: Films, Foams, Surfactants, Emulsions Chair: E. Eiser</p>
<p>10:00 – 10:30 K10.2 C. Cottin-Bizonne Suspensions of active particles</p>	<p>10:00 – 10:30 K5.4 E. Zaccarelli In-silico synthesis of microgels</p>	<p>10:00 – 10:30 K6.1 J. Brujic Folding emulsion polymers</p>
<p>10:30 – 10:50 O10.12 C. Maass Chemotaxis and autochemotaxis in self propelling liquid crystal droplets</p>	<p>10:30 – 10:50 O5.15 J. Meijer Observation of solid-solid transitions in 3D crystals of colloidal superballs</p>	<p>10:30 – 10:50 O6.1 Y. Iwashita Micelles and emulsion droplets in amphiphilic Janus particle–water–oil ternary system</p>
<p>10:50 – 11:10 O10.13 C. Maggi Active micromachines: Novel propulsion and control strategies</p>	<p>10:50 – 11:10 O5.16 C. Dias Dynamics of self-organization of network fluids</p>	<p>10:50 – 11:20 K6.2 I. Cantat Velocity measurements in draining foam films</p>
<p>11:10 – 12:30 Coffee break and posters (Topics 2, 4, 5, 6, 9, 11)</p>		
<p>12:30 – 14:00 Lunch break</p>		

Thursday July 20 - Afternoon

<p>14:00 – 14:45 Linhart Hall, P8 T. Loerting Water's glass transitions Chair: A. Soper</p>		
<p>14:45 – 15:00 Break</p>		
<p>15:00 – 16:30 Kosovel Hall Session 2: Water, Solutions Chair: S. Woutersen</p>	<p>15:00 – 16:30 Linhart Hall Session 7: Confined Fluids, Interfacial Phenomena Chair: F. Mugele</p>	<p>15:00 – 16:30 Štih Hall Session 11: Biological and Biomimetic Fluids Chair: R. Piazza</p>
<p>15:00 – 15:30 K2.1 C. Valeriani Ice nucleation and water anomalies (EPS invited speaker)</p>	<p>15:00 – 15:30 K7.2 L. Isa Rough particles at liquid-liquid interfaces: Arrested adsorption and "universal" emulsion stabilization</p>	<p>15:00 – 15:30 K11.2 R. Netz The transition from hydrodynamic via interfacial to dry friction for sheared surfaces in water</p>
<p>15:30 – 15:50 O2.1 F. Sciortino Re-entrant limits of stability of the liquid phase and the speedy scenario in colloidal model systems</p>	<p>15:30 – 15:50 O7.10 S. Mandal Diverging time scale in the dimensional crossover for liquids in strong confinement</p>	<p>15:30 – 15:50 O11.3 J. Berret Wire active microrheology to differentiate viscoelastic liquids from soft solids: applications to biophysics</p>
<p>15:50 – 16:10 O2.2 M. Ricci Sweet taste and sugar hydration</p>	<p>15:50 – 16:10 O7.11 M. Engel Precise colloidal assemblies in emulsion droplets</p>	<p>15:50 – 16:10 O11.4 J. Dobnikar Selective activation of immune response by non-specific multivalent interactions</p>
<p>16:10 – 16:30 O2.3 M. Levesque Predicting solvation profiles and free energies of proteins – the molecular density functional theory route</p>	<p>16:10 – 16:30 O7.12 G. Trefalt Interactions between charged particles in like-charged polyelectrolyte solutions: Interplay between non-exponential double-layer and depletion forces</p>	<p>16:10 – 16:30 O11.5 A. Vijaykumar Multiscale MD-GFRD simulations of the effect of rebinding kinetics in dilute diffusion-reaction systems</p>
<p>16:30 – 17:00 Coffee break</p>		
<p>17:00 – 17:40 Kosovel Hall Session 2: Water, Solutions Chair: E. Guardia</p>	<p>17:00 – 18:00 Linhart Hall Session 7: Confined Fluids, Interfacial Phenomena Chair: P. Teixeira</p>	<p>17:00 – 18:00 Štih Hall Session 4: Polymers, Polyelectrolytes, Biopolymers Chair: R. Potestio</p>
<p>17:00 – 17:20 O2.4 F. Merzel Molecular mechanism of hydrophobic hydration</p>	<p>17:00 – 17:20 O7.13 F. Mugele Hofmeister series of wettability in mica-water-alkane systems</p>	<p>17:00 – 17:20 O4.6 A. J. Moreno Single-chain polymer nanoparticles: from simple models for intrinsically disordered proteins to new soft colloids</p>
<p>17:20 – 17:40 O2.5 V. Bianco Contribution of water on the selection and stability of proteins at ambient and extreme thermodynamic conditions</p>	<p>17:20 – 17:40 O7.14 A. Würger Visco-elastic drag force and crossover from no-slip to slip boundary conditions for flow near an air-water interface</p>	<p>17:20 – 17:40 O4.7 H. Meyer Local chain segregation and entanglements in a confined polymer melt</p>
	<p>17:40 – 18:00 O7.15 A. Giacomello Hysteresis phenomena concerning wetting of surfaces with nanoscale defects</p>	<p>17:40 – 18:00 O4.8 A. Chatterji Origin of spatial organization of DNA-polymer in chromosomes</p>

Friday July 21 - Morning

<p>9:00 – 9:45 Linhart Hall, P9 D. Bonn Friction: From ice skating to the building of the pyramids Chair: H. Pleiner</p>		
<p>9:45 – 10:00 Break</p>		
<p>10:00 – 11:30 Kosovel Hall Session 9: Driven Systems, Rheology, Nanofluidics Chair: M. Schmidt</p>	<p>10:00 – 11:30 Linhart Hall Session 2: Water, Solutions Chair: P. Poole</p>	<p>10:00 – 11:30 Štih Hall Session 6: Films, Foams, Surfactants, Emulsions Chair: M. M. Telo Da Gama</p>
<p>10:00 – 10:30 K9.2 T. Squires Dynamic chemical micro-environments: Designing and visualizing solute and particle migration in non-equilibrium solutions</p>	<p>10:00 – 10:30 K2.2 A. D. Stroock From plants to clouds – how nanostructured materials mediate transport and phase behavior in the environment</p>	<p>10:00 – 10:30 K6.3 S. Cohen-Addad Playing with trapped gas species or elasticity to arrest coarsening in foams</p>
<p>10:30 – 10:50 O9.4 S. Marbach Non-equilibrium separation: From biomimetic kidney-on-a-chip to active sieving</p>	<p>10:30 – 10:50 O2.6 S. Woutersen Liquid-liquid transitions in aqueous solutions observed using infrared spectroscopy</p>	<p>10:30 – 10:50 O6.2 E. Forel Coarsening and coalescence of a liquid 2D-foam</p>
<p>10:50 – 11:10 O9.5 N. Bremond Liquid filled hourglass</p>	<p>10:50 – 11:10 O2.7 I. Saika-Voivod Water nanodroplets and the equation of state of TIP4P/2005</p>	<p>10:50 – 11:10 O6.3 A. Puisto Foam rheology: negative wake behind a penetrable obstacle</p>
<p>11:10 – 11:30 O9.6 G. Nava Onset of non-Newtonian viscosity in a DNA transient network</p>	<p>11:10 – 11:30 O2.8 E. Guardia Short range order, hydrogen bonding and rotational dynamics in plastic crystal phases of water</p>	<p>11:10 – 11:30 O6.4 D. Filippi Wall roughness effects in micro-channel flows of soft glassy materials</p>
<p>11:30 – 11:45 Break</p>		
<p>11:45 – 12:30 Linhart Hall, P10 S. Perkin Ionic liquid puzzles Chair: F. Sciortino</p>		
<p>12:30 – 13:00 Linhart Hall Closing session</p>		