

10. Miniworkshop in Leipzig

Marriott Hotel Leipzig
31.03.2022

A01	Effects of topological constraints in polymer melts on crystallization and structure formation	Thurn-Albrecht, Saalwächter
A03	Crystallization and cooperativity in dynamic supramolecular polymers	Binder
A06	NMR Investigations of the Self-Organization and Dynamics of Amyloid Protein Fibrils	Huster
A07	Intra- and intermolecular structure formation in the presence of specific interactions	Paul
A08	Organization and interactions of eye-lens crystallins: native states and cataract formation	Saalwächter, Balbach
A09	Structure formation and aggregation of solvated peptides and polymers in the presence of ions	Sebastiani
A12	Assembly of PTH/polymer hybrid-molecules	Balbach, Binder
B01	Aggregation and Self-Assembly of Amyloid Systems and Functionalized Peptides near Interfaces - Towards Molecular Mechanisms and Smart Materials	Abel
B03	Substrate induced molecular order and nucleation in polymer thin films	Thurn-Albrecht
B04	Nanopatterns of macromolecules	Janke
B07	Semicrystalline Homopolymers and Block Copolymers at the Air/Water Interface and in Langmuir-Blodgett Films on Solid Supports	Kreßler
B08	Refined Infrared Spectroscopy to Study Molecular Orientation and Order in Heterogeneous Polymer Systems	Kremer
B10	Interactions of single polymer chains and Amyloid fibrils in a thermophoretic trap	Cichos
B12	Mechanisms of early amyloid formation and the confining influence of macromolecular crowding	Ott
B14	Structure formation in comb-like polymers with rigid backbones under external constraints: Influence of shear fields and interfaces	Beiner
B15	Dynamics and association in individualized macromolecules	Tress
B16	Crystallization of polymer chains under anisotropic confinement in liquid crystals	Mendes Ferreira
B17	Force-induced α - β transitions in coiled coil structures	Blank
B18	Molecular ion deposition for the generation of peptide and polymer surface layers	Warneke
Z01	Synthesis of Labeled and Unlabeled Peptides with Difficult Sequences in Large Scales	Rothmund

Contact

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Location:

Marriott Hotel Leipzig
Am Hallischen Tor 1
04109 Leipzig

Wlan: Marriott Konferenz

Password: Uni2021

Programme:

Time	Event
9.00 am	Welcome/Speakers report (Room USA))
9.45 am	Short introduction to posters I (USA)
10.15 am	Coffee break (Foyer)
10.30 am	Poster Session I (USA & Colorado)
12.00 pm	Lunch (Restaurant)
1.00 pm	Short introduction to posters II & Poster Session II (Room USA& Colorado)
2.45 pm	Coffee and snacks)
3.00 pm	General Meeting (Room Colorado)
3.00 pm	iRTG Meeting (Room USA)

Poster session one (10.30 – 12 pm)

Crystallization	Amyloids and Hybrids
<p>Yu Qiang, Mohd Afiq Bin Anuar, Albrecht Petzold, Kay Saalwächter, Thomas Thurn-Albrecht (A01) <i>Semicrystalline morphology and intracrystalline chain dynamics in different polyesters</i></p> <p>Tonghua Liu, Albrecht Petzold, Kay Saalwächter, Thomas Thurn-Albrecht (A01) <i>The effect of entanglement density of semi-crystalline polymer on the stress-strain curve</i></p> <p>Marthinus van Niekerk, Oleksandr Dolynchuk, Thomas Thurn-Albrecht, Muhammad Tariq, Alexander Much (B03) <i>Effect of Substrate Interaction on Crystallization Kinetics and Crystal orientation</i></p> <p>Nazmul Hasan, Nguyen Thi Minh Hai, Karsten Busse and Jörg Kressler (B07) <i>Crystallization of Isotactic Poly(methacrylic acid) at the Air-Water Interface and in Thin Films</i></p> <p>Wycliffe Kipnusu, Evgeny Zhuravlev, Christoph Schick, Friedrich Kremer (B08) <i>Homogeneous nucleation in polyamide 66, a two-stage process as revealed by combined nanocalorimetry and IR spectroscopy</i></p>	<p>Christian Lauer, Timur Shakirov, Wolfgang Paul (A07) <i>Intra- and intermolecular structure formation in the presence of specific interactions</i></p> <p>Malte Neudorf, Maria Camilles, Alexey Krushelnitsky, Jochen Balbach, Kay Saalwächter (A08) <i>Organization and Interactions of eye-lens crystallins proteins</i></p> <p>Christian Laube, Torsten John, Lisandra L. Martin, Herre Jelger Risselada, Bernd Abel (B01) <i>Aggregation and Self-Assembly of Amyloidogenic Peptides at Functionalized and Nanostructured Interfaces</i></p> <p>Twinkle Bhatia, Jana Wägele, Silvia De Sio (B12) <i>Fibrillation in macromolecular crowded environment</i></p> <p>Anna-Maria Tsigirigi, Zeynep Atris, Melis Göktas, Ana Vila Verde, Kerstin G. Blank (B17) <i>Force-induced α-β transitions in coiled coil (CC) structures</i></p> <p>Sebastian Kawa, Markus Rohdenburg, Harald Knorke, Jonas Warneke (B18) <i>Molecular Ion Deposition for the Generation of Peptide and Polymer Surface Layers</i></p>

Poster session two (1.30 – 3.00 pm)

Crystallization	Amyloids and Hybrids
<p>Matthias Rohmer, Ozgün Ucak, Wolfgang H. Binder (A03) <i>Secondary structure, assembly and cooperativity in dynamic supramolecular polymers</i></p> <p>Yue Cai, Florian Lehmann, Edgar Peiter, Dariush Hinderberger, Wolfgang H. Binder (A03) <i>Bergman cyclization of main-chain enediyne polymers for enhanced DNA cleavage</i></p> <p>Stefan Schnabel, Fabio Müller, Maximilian Conradi, Henrik Christiansen, Wolfhard Janke (B04) <i>Scaling of hard sphere-polymers and collapse dynamics of AlaN</i></p> <p>Rene Sattler, Sebastian Lüneburg, Gaurav Gupta, Heiko Huth, Mario Beiner (B14) <i>Lysine Defected Linear Precision Polymers : Crystallization Kinetics and Structure depending on Defect Length</i></p> <p>Wing Kit Or, Alaa Hasan, Martin Tress (B15) <i>Polymer Crystallization in Nanoscopic Sample Sizes by Dielectric Spectroscopy</i></p> <p>Anika Wurl, Tiago Mendes Ferreira (B16) <i>Crystallization of polymer chains under anisotropic confinement in liquid crystals</i></p>	<p>Holger A. Scheidt, Alexander Korn, Daniel Huster (A06) <i>The conformation of pyroglutamated amyloid β (3-40) and (11-40) fibrils – extended or hairpin?</i></p> <p>Thomas Kunze, Christoph Dressler, Svetlana Pylaeva, Daniel Sebastiani (A09) <i>Primary Nucleation Mechanism of Short Amyloid Peptides from Computer Simulation</i></p> <p>Bruno Voigt, Julia Hesselbarth, Carla Schmidt, Jochen Balbach A12) <i>The Pre-Nucleation Equilibrium of the Parathyroid Hormone</i></p> <p>André Paschold, Newton Sen, Bruno Voigt, Jochen Balbach, Wolfgang H. Binder (A12) <i>Assembly of modified peptides and polymer hybrid molecules</i></p> <p>Stephan Sydow, Benjamin Faselow, Tobias Thalheim, Jörg Schnauß and Frank Cichos (B10) <i>Actin Photo-Cleavage as an Artificial Secondary Nucleation Model</i></p> <p>Benjamin Faselow, Tobias Thalheim, Frank Cichos (B10) <i>Multiple thermophoretic particle trapping</i></p>