



Schedule Polymer Physics Summer School SynBioPoly 22

(as of August 28, 2022)

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|-------------------------------------|-----------------|
| lectures | excursions |
| lab courses and poster presentation | evening session |

| 27.8.2022 (Saturday) | 28.8.2022 (Sunday) | 29.8.2022 (Monday) | 30.8.2022 (Tuesday) | 31.8.2022 (Wednesday) | 1.9.2022 (Thursday) | 2.9.2022 (Friday) |
|---|--|---|---|--|--|---|
| | 9.30-9.45 Welcome (Kay Saalwächter) <i>Jacob Volhard-lecture hall</i> | 8.30-9.30 Basics of macromolecular chemistry and self-organization (Wolfgang Binder) <i>Jacob Volhard-lecture hall</i> | 8.30-9.30 Infrared spectroscopy of polymers with an excursion to Nano-IR (Zhaohui Su) <i>Jacob Volhard-lecture hall</i> | 8.00-8.45 transfer to Leipzig | 8.30-9.30 Calorimetric techniques applied to study polymers and proteins (Mario Beiner) <i>Jacob Volhard-lecture hall</i> | 8.00-8.45 transfer to Leipzig |
| | 9.45-10.45 Introduction to biological macromolecules (Jochen Balbach) | 10.00-11.00 Cryo-electron microscopy and polymorphism of amyloid fibrils (Matthias Schmidt / Marcus Fändrich) | 9.30-11.30 Preparation of poster (lab supervisor from lab course 1) | 9.00-10.00 Characterization of polymers with light scattering (Frank Cichos) <i>lecture hall 08</i> | 10.00-11.00 Molecular dynamics simulations and coarse graining (Wolfgang Paul) | 9.00-10.00 Introduction to Dielectric Spectroscopy (George Floudas) <i>lecture hall 08</i> |
| Arrival and check-in | 11.00-12.00 Introduction to synthetic macromolecules (Kay Saalwächter) | 11.15-12.15 NMR spectroscopy for solids and soft materials (Tiago Mendes Ferreira) | | 10.30-11.30 Introduction to Monte Carlo simulations (Wolfhard Janke) | 11.15-12.15 Rheological measurements on polymers (Quan Chen) | 10.30-11.30 Investigating the mechanical properties of polymers (Yongfeng Men) |
| 14.00 Registration for the summer school (at the hotel) | 12.00-13.00 lunch break | 12.15-14.00 lunch break | 12.15-14.00 lunch break | 11.30-13.00 lunch break | 12.15-14.00 lunch break | 11.30-13.15 lunch break |
| 16.30-18.00 Guided tour Halle (Saale) | 13.00-18.00 Hike through the wine landscape near Freyburg and the nature reserve <i>Tote Täler</i> with a visit to a winery and dinner in a restaurant | 14.00-18.00 lab course 1 | 14.00-15.00 Imaging mesoscopic structures in synthetic polymers with microscopy techniques (Oleksandr Dolynchuk) | 13.00-18.00 Guided bike tour through Leipzig or Stand up paddling at Cospudener See (starting with an introduction by a coach) | 14.00-18.00 lab course 2 | 13.15-14.15 Scattering investigation of crystalline polymers (Thomas Thurn-Albrecht) |
| | | | 15.15-16.15 Fluorescence correlation spectroscopy in polymer systems (Maria Ott) | | | 14.30-15.30 Small Angle X-ray Scattering of polymers in solution and bulk (Thomas Thurn-Albrecht) |
| | | | | | | 15.30-18.00 Poster session |
| 18.30 Dinner at Wenzel Prager Bierstuben | | | 19.00: Evening session with catering Research in Germany (International Office MLU) Fraunhofer Institute IMWS (Mario Beiner) Master course "Polymer Material Science" (Karsten Busse) | 19.00: Evening session with catering PhD Programs in Germany (Charles Qualey) Research Training Group (Wing-Kit Or) M. Sc. Program "International Physics Studies Program" (Michael Ziese) | | from 18.00 Conclusion + feedback + dinner |