

iRTG workshop 2020

Polymers: random coils and beyond

Monday (November 2, 2020)
9:00-9:15 Welcome (Ann-Kristin Flieger)
Chair: Anika Wurl
9:15-10:00 Introduction to proteins and biophysical experiments (Malte Neudorf, Bruno Voigt)
10:00-10:30 Short presentation of overview slide (Muhammad Tariq, Newton Sen, Mohammad Fahimi, Sebastian Belau)
10:30-10:45 coffee break
10:45-11:15 AFM (Muhammad Tariq)
10:45-11:15 Reversible addition-fragmentation chain transfer (RAFT) polymerization (Newton Sen)
11:15-12:00 get-together (Martha Schulz)
12:00-13:00 lunch break
Chair: Bruno Voigt
13:00-13:45 Simulation Methods (Polymer Models, Molecular Dynamics Simulations, Monte Carlo Simulations) (Fabio Müller, Anika Wurl, Christian Lauer)
13:45-14:15 Magnetic Tweezers (Sebastian Belau)
13:45-14:15 Fluorescence Correlation Spectroscopy (Mohammad Fahimi)
14:15-14:45 coffee break
Chair: Muhammad Tariq
14:45-15:30 X-ray scattering techniques: SAXS and WAXS (Yu Qiang, Robert Kahl)
Tuesday (November 3, 2020)
Chair: Robert Kahl
9:00-9:45 NMR: introduction and double quantum NMR (Lucas Löser, Hannes Jurack)
9:45-10:00 Short presentation of overview slide (Alaa Hassan, André Paschold, Agripoly)
10:00-10:30 Dielectric Spectroscopy (Alaa Hassan)
10:00-10:30 Chromatography: LC, GPC (André Paschold)
10:45-12:00 virtual meeting at gather town
12:00-13:00 lunch
Chair: Alaa Hassan
13:00-13:45 ThT assays, molecular tags (Jana Wägele, Anna-Maria Tsirigoni)
14:00-14:45 Calorimetry: DSC and Fast Scanning Calorimetry (Yue Cai, Martha Schulz)
14:45-15:00 summary and conclusion (Ann-Kristin Flieger)