

Present and Perspectives in Neutron Scattering for Molecular Biophysics

Wednesday 26 April 2023 16:30 (30 minutes)

In my talk I will highlight ongoing work in my group concerning structure and dynamics of the intrinsically disordered myelin basic protein (MBP) and its interaction with biomimetic myelin membranes as well as effects of macromolecular crowding on the liquid liquid phase transition of MBP. Additionally, I will present recent work on changes of molecular dynamics of a blue light sensitive photoreceptor protein through its photo-cycle investigated by a combination of kinetic QENS and NMR experiments. Furthermore, I will present planned work in the field of molecular biophysics that relies on the application of neutron spectroscopy, small-angle scattering as well as neutron reflectometry.

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