

**Roland Netz, Philip Loche, Amanuel Wolde-Kidan** (Department of Physics, Free University Berlin):

**Atomistic simulation approaches to cosolutes and inclusions in membranes**

**Abstract:**

Based on fully atomistic simulations of interacting bilayer membranes in water, we discuss how to construct continuum coarse-grained models that capture effects due to hydration, cosolutes and inclusions. For this, we use novel MD simulation techniques that allow to efficiently perform simulations at constant water chemical potential.