

SEMINAR ANNOUNCEMENT

FRIDAY, 25.01.2019

11:00 h MC 351

Universität Duisburg-Essen,
Fakultät der Physik, Duisburg, Lotharstr. 1

Dr. Ana Vila Verde

Max Planck Institute of Colloids and Interfaces Theory and Bio-Systems Department

"One talk, two stories: fluorination and amino acid solvation; oligomerization and the mechanical response of protein coil coils"

The interplay between solutes and water is central to understand the soft world around us: water modulates the magnitude and the kinetics of the interactions between solutes such as ions and biomolecules, and is central to the mechanical response of large biomolecules to applied force; solutes affect the structure and dynamics of water. My group has explored this interplay from the perspective of the solute and that of the water in a variety of systems, using particle-based simulations. In this talk I will discuss recent results for two distinct systems: the interactions of fluorinated amino acids and water, and the mechanical response of protein helices and coiled coils to applied force.

Interested persons are cordially invited to attend!