

**Physikalisch-Chemisches Kolloquium am Donnerstag, den 21.01.2016 um 12:00 (AR-F002)**

Prof. Dr. Dominik Wöll, Institut für Physikalische Chemie, RWTH Aachen University

Titel: *Structure and dynamics of polymer systems visualized by highly resolved fluorescence microscopy methods*

Abstract:

Understanding the relationship between molecular structure and dynamics and macroscopic properties is one of the key tasks in polymer science. Apart from other analytical tools, such as scattering techniques, electron and atomic force microscopy, we see a huge potential in the application of fluorescence microscopy methods to approach this challenge. In my contribution, I would like to discuss our experiments and results on dynamics in polymers using single molecule fluorescence tracking and fluorescence correlation spectroscopy, and present recent results on the visualization of polymer structures using superresolved fluorescence microscopy.