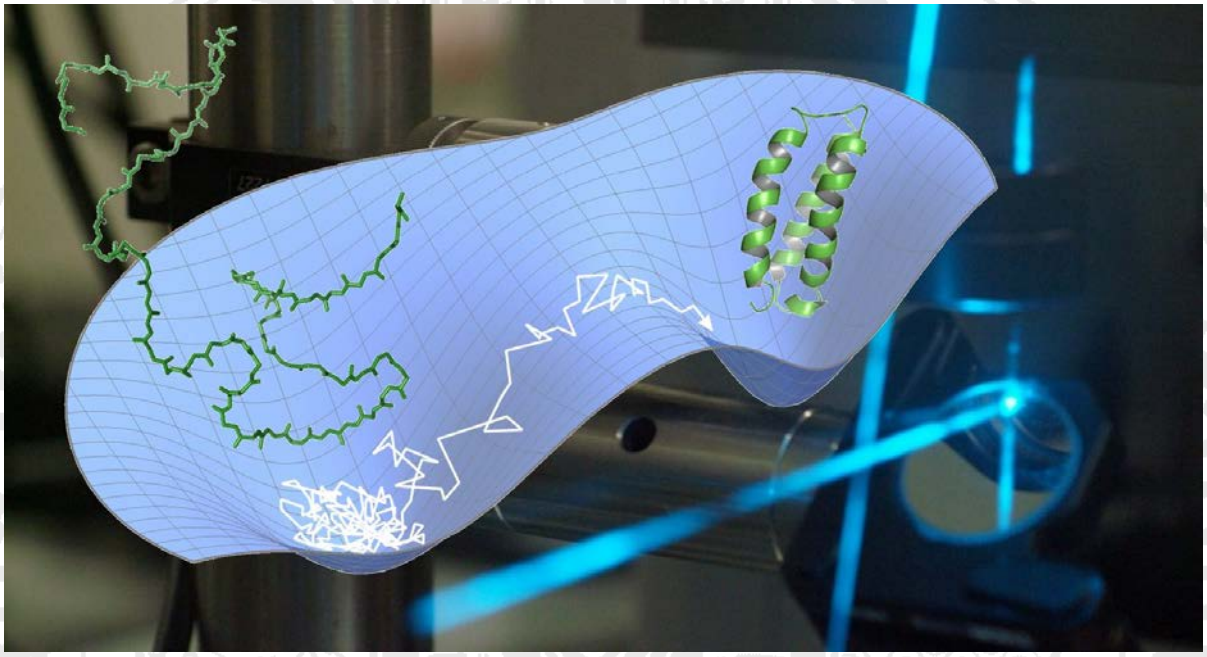
UNI FREIBURG
Physikalisches Institut
Fakultät für Mathematik und Physik
Albert-Ludwigs-Universität Freiburg

PHYSIKALISCHES KOLLOQUIUM

AM 7. NOVEMBER 2016 UM 17 UHR C.T.

IM GROßEN HÖRSAAL



BIOPHYSICS AT THE NANOSCALE: SINGLE-MOLECULE SPECTROSCOPY OF PROTEIN FOLDING AND DYNAMCIS

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Proteins are the most versatile constituents of the molecular machinery of life. Single-molecule spectroscopy provides an opportunity for investigating the molecular dynamics of proteins on nanometer lengthscales and across twelve orders of magnitude in time, even in complex environments, including live cells. A physical description of biomolecular behavior is becoming increasingly accessible via the synergy of experiment with analytical theory and molecular simulations.