



Berliner Physikalisches Kolloquium

im Magnus-Haus, Am Kupfergraben 7, 10117 Berlin

Eine gemeinsame Veranstaltung der Physikalischen Gesellschaft zu Berlin e.V. (PGzB), der Freien Universität Berlin (FUB), der Humboldt-Universität zu Berlin (HUB), der Technischen Universität Berlin (TUB) und der Universität Potsdam (UP), gefördert durch die Wilhelm und Else Heraeus-Stiftung.

Am Donnerstag, dem **05. Juli 2012, um 18:30 Uhr**

spricht

Dr. William A. Eaton
Laboratory of Chemical Physics, NIDDK,
National Institutes of Health, Bethesda, Maryland, USA

über das Thema

**„Single molecule fluorescence spectroscopy
and protein folding“**

Moderation: Roland Netz (FU Berlin)

One of the grand challenges in biophysical science is to understand how a disordered polypeptide chain folds into the unique three-dimensional structure that performs a biological function — the so-called protein folding problem. Progress in this area, as well as in the study of many other complex biomolecular processes, has come from the application of single molecule fluorescence spectroscopy. I will describe how Förster resonance energy transfer and a photon-by-photon analysis of single molecule fluorescence trajectories can be used to gain a deeper understanding of how proteins fold.