

Einladung
zum
Physikalischen Kolloquium
Montag, 14.11.2016
16:15 Uhr in N24/H13

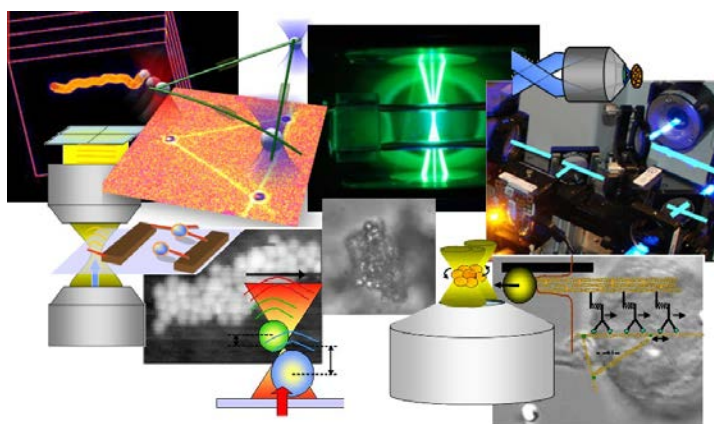


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Novel photonics to observe biophysics on the small and fast scale

Many new, exciting imaging techniques have emerged during the last decade, providing significantly improved spatial resolution and contrast. However, this extra information comes at the cost of more photons required to illuminate the target, which requires more time and energy and often damages biological structures. The smaller the structures to be investigated, the faster they usually move inside living cells, because of both Brownian motion and coordinated work of molecular motors. Therefore, alternative imaging approaches have to be developed.

In this talk I will demonstrate how nanometer scale displacements and motions of cellular structures and artificial probes can be observed by coherent optics, giving novel insights into principles of molecular mechanics of living systems.



Ab 16.00 Uhr Kaffee, Tee und Kekse vor dem Hörsaal H13

Organisation: Prof. Dr. F. Jelezko, Tel. 23750, Host: Prof. Dr. J. Michaelis, Tel. 23050, off.: 23051