

Karl Friedrich Bonhoeffer Lecture

Thursday, 25th April 2013 - 6 pm, s.t. Manfred Eigen Hall, Max Planck Institute for Biophysical Chemistry

Am Faßberg 11,37077 Göttingen

Prof. Dr. Mikhail Lukin

Department of Physics, Harvard University, Cambridge, USA



Exploring new frontiers of optical science: from quantum information to biosensing

We will discuss recent developments involving a new scientific interface between optics, quantum information science, nanoscience, and biology. Specific examples include the use of quantum optical techniques for manipulation of individual spins using atom-like impurities in diamond and for controlling individual optical photons using nano-photonic systems. Emerging applications of these techniques for nanoscale sensing in biological systems and life science will be discussed.



Host: Stefan W. Hell