

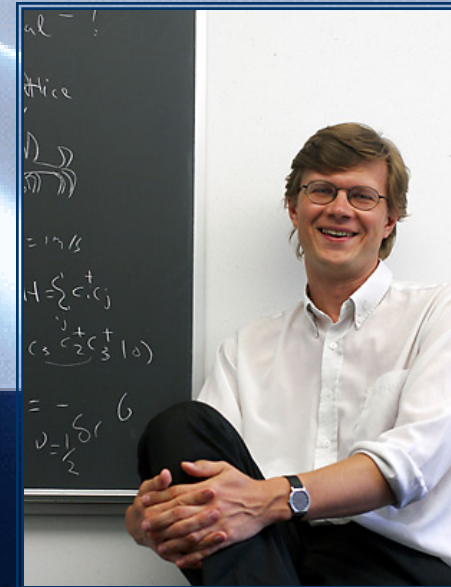
CU Physics Department Colloquium

Monday, January 31, 2011 4:10 PM 428 Pupin Hall

Mikhail Lukin, Harvard University

"Exploring new frontiers of quantum optical science"

In this talk we will discuss recent developments involving a new scientific interface between quantum optics, many body physics, nanoscience and quantum information science. Specific examples include quantum manipulation of individual spins and photons using atom-like impurities in diamond and control of light-matter interactions using sub-wavelength localization of optical fields. Novel applications of these techniques ranging from novel approaches to quantum computation at room temperature to implementation of quantum optical networks and nanoscale magnetic sensing will be discussed.



Hosted by Andrew Millis