



PHYSIKALISCHES KOLLOQUIUM

EINLADUNG

5.1.2011/Wh

Am Montag, dem 10.1.2011, 16.15 Uhr in W2-1-148

spricht

Prof. Dai-Sik Kim
Director of the Center for Subwavelength Optics
Seoul National University
z.Zt. AG Ultraschnelle Nano-Optik

über

“How millimeter electromagnetic waves can go through nanoscale apertures”

In this talk, we will focus on how terahertz electromagnetic waves with wavelengths in the millimeter scale can funnel through nano slits and nano slot antennas. The field enhancement is enormous, three orders of magnitudes, which can be used for nonlinear processes and ultrasensitive probing of underlying structures. Optics in extreme subwavelength regime resembles electro- and magneto-statics involving capacitors and inductors, in contrast to the electromagnetic waves in free space.

Einladender: Christoph Lienau