

Colloquium Notice

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Sub-diffraction imaging and diffraction-free propagation in photonic systems

Diffraction effects are ubiquitous in all phenomena involving the propagation of waves. As an example, in optics and photonics the so-called "diffraction limit" imposes a fundamental limit on the resolution that an optical instrument can achieve, or on the confinement that a beam can maintain during propagation. In this talk I will present novel strategies to manage or to completely counteract the effects of diffraction. The far reaching consequences of the proposed schemes include the possibility of achieving far-field sub-diffraction imaging, evanescent wave recovery and diffraction-free, self-healing plasmonic propagation.

Wednesday
March 6, 2013
Starts at 12:15 PM
Physics Conference Room, SB B326