

**Title:** Light Focusing in Near-Field Zone Plate Lens with Sub-Diffraction-Limited Resolution

**Time:** 2/20/2009 (Fri.) 2:30 PM~3:30 PM

**Place:** RM 112, New Physics Building

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**Abstract:**

The light transmitting properties through the near-field zone plate structures are studied by the three dimensional finite-difference time-domain method. The physics of light focusing with sub-diffraction-limited resolution are discussed. The designed structures can be fabricated by the standard semiconductor procedures and measured by the lithography method or near field scanning optical microscopy.