

**Joint ECE/CCT/HITP\* Seminar**

# **Slow Light in Optical Fibers**

**Zhaoming Zhu  
Duke University**

**Friday, April 27, 2007  
9:00 – 10:00 AM, Room 1120 CEBA**

The techniques of controlling the optical wave propagation speed have important applications in high-speed photonic networks, optical signal process, high speed computing, and phased-arrayed radars. Such slow-light techniques are being explored in various material systems including optical fibers. In this talk, I will describe the fundamentals of slow light via stimulated Brillouin scattering (SBS) in optical fibers, highlight recent studies in improving the slow-light technique, and discuss my future research in photonics.

\* Electrical & Computer Engineering  
Center for Computation & Technology  
Hearne Institute of Theoretical Physics

**Everyone is invited to attend**