

Center for Quantum Science and Engineering (CQSE)

Weekly Seminar
Mar. 11, 2011 (Friday)

TIME Mar. 11, 14:30 ~ 15:30
TITLE Fluid-filled photonic crystal fiber
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Abstract

Photonic crystal fibers (PCFs) are microstructured optical fibers with air-hole arrays in the cladding region. The optical properties of PCFs are hard to be tuned due to the fixed geometry. By infiltrating index-variable fluids into the PCFs, we can form tunable PCFs. We have numerically and experimentally investigated tunable optical properties of the fluid-filled PCFs. In addition, tunable optical devices based on the fluid-filled PCFs are also demonstrated.

