

Joint CQSE and CASTS Seminar

Weekly Seminar
May 15, 2015 (Friday)

TIME May 15, 2015, 14:30 ~ 15:30
TITLE Coherent Manipulation of Single Photons
SPEAKER Prof. Chih-Sung Chuu
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PLACE Rm716, CCMS & New Physics Building, NTU

Abstract

Manipulation of single photons is a promising way to control the light-matter interaction at the single photon level. In this talk, we will review our previous work using four-wave mixing in atomic ensemble as well as our present work using parametric down-conversion in nonlinear crystal. The latter provides more flexibilities and possibilities when controlling the light-matter interaction, which is crucial for realizing advanced technologies such as quantum computation, communication, and networking.

