

Abstract Submitted
for the MAR16 Meeting of
The American Physical Society

Nonlinear Effects in Coupled Microtoroidal Optical Microcavities XIAOFEI LIU, GUI LU LONG, Tsinghua Univ, QUANTUM INFORMATION GROUP IN DEPARTMENT OF PHYSICS, THU TEAM — Nonlinear effect plays an important role in modern physics. Thanks to the great improvement of the fabrication technology, the quality factor of microcavities can reach more than 100 million. This gives rise to many amazing phenomena. Recently, a new kind of nonlinear effect, optomechanics, which involves the interaction between the photon and phonon, has made important progress both in experiment and theory. Here, we will study the nonlinear effect in coupled microcavities, and three-way electromagnetic induced transparency and so on.

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Date submitted: 08 Nov 2015

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