

Joint CQSE and CASTS Seminar

Weekly Seminar
Oct. 16, 2015 (Friday)

TIME Oct. 16, 2015, 14:30 ~ 15:30
TITLE Many-resonator quantum state engineering with the attractive Bose-Hubbard model
SPEAKER Dr. Adil Gangat
Department of Physics, National Taiwan University
PLACE Rm716, CCMS & New Physics Building, NTU

Abstract

Non local superpositions of photonic resonator states are of fundamental and applied interest but are at the same time difficult to generate at the many-resonator scale with conventional techniques that use only few-resonator interactions. Here I will review the attractive Bose-Hubbard model and explain how it can be used to engineer non local superpositions of nearly arbitrary photonic states in the many-resonator regime.

