

LIGHT-DRIVEN MACROSCOPIC QUANTUM STATES IN SOLIDS

RYO SHIMANO

Cryogenic Research Center
and Department of Physics,
The University of Tokyo,
Japan

There has been a growing interest in the optical manipulation of quantum phases in solids with recent advances of ultrafast laser technology. In this colloquium, I will report in particular on the study of light-driven macroscopic quantum states. I will start with the observation of light-induced electron-hole BCS state in a semiconductor. Then I will report on the Higgs mode in conventional / unconventional superconductors, which can be viewed as a collective Rabi oscillation of Cooper pairs.

FRIDAY,
08.02.2019

2:00 PM

CFEL
SEMINAR ROOMS I-III

