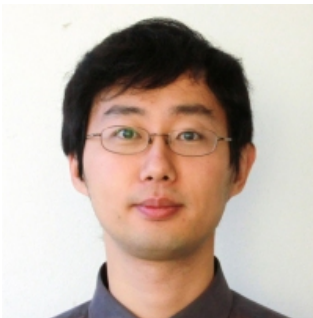




THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
COLLOQUIUM

Turn Defects in Solids into Tools for Quantum Information Science

by



Professor Sen YANG (楊森教授)
Department of Physics
The Chinese University of Hong Kong

Date: April 17, 2020 (Friday)

Time: 4:00 - 5:00 p.m.

Join ZOOM Meeting: <https://cuhk.zoom.us/j/141007442>



ALL INTERESTED ARE WELCOME

Abstract

Defects in solids, unwanted imperfectness in the past, become one of the promising candidates for the physical platform of quantum information science. Since the first work in 1997, a vast number of applications and developments based on different kinds of defects has been made in quantum physics, such as quantum memory and quantum repeaters for quantum communications, quantum computing nodes and various quantum sensors. During this talk, we will explain the advantages of using defects in solids, and present recent developments in the quantum optics and the sensing of both quantum phase transitions and classical phase transitions in extreme conditions.