**Distinguished Lectures**

Department of Mathematics
香港城市大學
City University of Hong Kong

# DEPARTMENT OF MATHEMATICS

## City University of Hong Kong

# Functional analytic methods for discrete approximations of subwavelength resonator systems

## by


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**Date: 21 Oct. 2021 (Thursday)**
**Time: 4:00 – 5:00 pm**

## ABSTRACT


In this lecture, the speaker will review mathematical and computational frameworks to elucidate physical mechanisms for manipulating waves in a robust way at scales beyond the diffraction limit using subwavelength resonator systems. In particular, he will demonstrate large-scale effective parameters with exotic values. He will also show that these systems can exhibit localized and guided waves on very small length scales. Using the concept of topologically protected edge modes, such localization can be made robust against structural imperfections.


Registration URL:
https://cityu.zoom.us/j/93428583213?pwd=eTVQUGxrQjNpRmlES0Vtbm14Umdtdz09

***Meeting ID: 934 2858 3213***
***Password: 902378***

**~ALL ARE WELCOME~**