



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON APPLIED MATHEMATICS

**On a stochastic optimal interface problem for
Helmholtz equations**

By

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Abstract

In this talk, we consider a stochastic optimal interface problem for Helmholtz equation. This project is motivated by an optimal solar panel design. We derive the shape derivative and use them to design a stochastic gradient descent algorithm. Convergence analysis and numerical experiments will be presented.

Date : 25 July 2024 (Thursday)

Time : 3:00pm - 4:00pm

Venue : Room 4475 (Lifts 25/26)

All are Welcome!