



Department of Applied Mathematics Seminar

Professor Youjun DENG

Central South University, China

Topic

Recent advances on mathematical models of multi-layered medium

Date | Time 19 March 2025 (Wednesday) | 15:30 – 16:30 (HK Time)

Venue

Y306

Abstract:

In this talk, we shall present some recent work on mathematical models of multi-layered medium, inculding electro-static system, Helmholtz system, elastic system etc. We shall build some elementary mathematical framework for multi-layered medium. Based on the framework, we shall show some asymptotic results for multi-layered medium, which is a special case of inhomogeneous medium. We shall also show how to design multilayer structures of metamaterials, which may greatly increase the resonance modes, by using the algebraic framework we designed.

ALL ARE WELCOME