



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

## **SEMINAR ON PURE MATHEMATICS**

### **Period relations for Rankin-Selberg convolutions**

by

**Prof. Dongwen Liu**

School of Mathematical Sciences, Zhejiang University

#### **Abstract**

In this talk we will explain the period relations for critical values of Rankin-Selberg L-functions for the case of  $GL(n) \times GL(n-1)$ , which is an automorphic analog of Deligne's conjecture. The main novelty is a proof of archimedean period relations, which is based on an explicit comparison between Rankin-Selberg integrals and the integrals over the open orbit of certain spherical variety. It is a joint work with Jian-Shu Li and Binyong Sun.

**Date** : 25 May 2022 (Wednesday)

**Time** : 11:00am – 12:00pm

**Zoom Meeting** : <https://hkust.zoom.us/j/92961060977> (Passcode: 123456)

*All are Welcome!*