# *DELIGNE'S CONJECTURE FOR RANKIN-SELBERG L-FUNCTIONS OVER CM-FIELDS*

## Speaker: Jie LIN

## Duisburg-Essen University

**Time:** Tuesday, April 29th, 2025, 15:00-16:00

**Venue:** Room 102, Shanghai Center for Mathematical Sciences

**Abstract:**

In this talk, we shall first introduce Deligne's conjecture for critical L-values which generalize the fact that for a positive integer m, \zeta(2m) is a rational multiple of (2\pi i)^{2m}. We will then refine Deligne's conjecture for Rankin-Selberg L-functions over CM fields. In the end, we will introduce a new strategy to prove this conjecture. This is a joint work with Harald Grobner, Michael Harris, and A. Raghuram.