

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

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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.