



DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

## Colloquium

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INTRODUCTION TO THE RELATIVE TRACE FORMULAE OF  
GUO-JACQUET

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**ABSTRACT:**

A goal of the relative Langlands programme is to study the relation between period integrals of automorphic forms and special values of  $L$ -functions. A well-known example is the Waldspurger formula relating toric periods to central  $L$ -values for  $GL(2)$ , which was reproved by Jacquet via the comparison of relative trace formulae. In this talk, we plan to introduce the relative trace formulae proposed by Guo-Jacquet aiming to generalise Waldspurger's theorem to higher ranks. We shall recall the background, survey known results, explain some difficulties and discuss recent progress.

**4 – 5pm, Wednesday, March 22, 2023**

**Room 204, Smith Hall**