



DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Colloquium

PRODUCT OF RANKIN-SELBERG CONVOLUTIONS AND
APPLICATIONS

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ABSTRACT:

The Rankin-Selberg method is a fruitful way to study zeta functions or L -functions. In this talk we construct a family of Rankin-Selberg integrals which represent the product of L -functions of $GL(\ell) \times GL(m)$ and of $GL(\ell) \times GL(n)$ when $m + n < \ell$. When $n = 0$, these integrals are those defined by Jacquet–Piatetski-Shapiro–Shalika up to a shift. We will also discuss applications of these integrals. This is joint work with Qing Zhang.

4 – 5pm

Wednesday, November 8, 2023

Room 204, Smith Hall