Wednesday, June 17, 3:00 p.m. Jeffery 422  
Summer Number Theory Seminar  
Speaker: Thomas Hulse  
Title: Sign Changes and Smoothings of Average Orders  
Abstract: In this talk I will return to a topic I presented last November on estimates of average orders of Fourier coefficients of automorphic forms. After reviewing the topic and the goal, I will go into some detail about the recent progress of the current project, which involves investigating spectral expansions of shifted multiple Dirichlet series. It is the story of how hopes were raised high on an infinite wall of singularities, only to be dissolved in a cloud of illusory residues, and what we may still be able to prove from that.

This is ongoing work with Chan Ieong Kuan, David Lowry-Duda, and Alexander Walker.