Title: Fourier Coefficients of Eisenstein Series, L-functions, and Young Tableaux

Abstract: The Fourier coefficients of Eisenstein series contain interesting arithmetic objects. In this talk, we'll discuss Eisenstein series on certain covers of Chevalley groups, why you'd never want to compute their Fourier coefficients using an integral with an additive character, and how you can get around it using combinatorics involving Young tableaux and alternating sign matrices. These Eisenstein series on covers have Fourier coefficients that can contain Dirichlet L-series, L-functions of higher rank automorphic forms, and other interesting functions to be discussed, from which we derive arithmetic applications. This is based on recent joint work with Dan Bump and Sol Friedberg.