

Speaker: Paul Gunnells

Title: Weyl Group Multiple Dirichlet Series

Abstract: Multiple Dirichlet series are generalizations of L-functions involving several complex variables. While the functional equation of a usual L-series is an involution $s \rightarrow 1 - s$, a multiple Dirichlet series satisfies a group of functional equations that intermixes all the variables. In this talk we describe a construction of such series attached to Dynkin diagrams, where the resulting group of functional equations is the associated Weyl group. These series are expected to be Fourier-Whittaker coefficients of metaplectic Eisenstein series. This is joint work with Gautam Chinta.