

BOSTON UNIVERSITY NUMBER THEORY SEMINAR

# A Multiple Dirichlet Series Associated to Binary Quadratic Forms

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Monday, April 22 at 4:15 pm  
111 Cummington Mall, MCS B21  
Tea and cookies in MCS 144 at 3:45 pm

**Abstract:** It is well-known that the sum of special values of the  $GL_2$  Eisenstein series is equal to (up to some factors)  $\zeta(s)L(s, \chi_d)$ , where  $\zeta(s)$  is the Riemann zeta function and  $L(s, \chi_d)$  is the quadratic Dirichlet L-series. In this talk, I will describe a new proof for this old result, using a multiple Dirichlet series associated to binary quadratic forms. In addition, I will describe generalizations and extensions of this result.