## Philadelphia Area Number Theory Seminar

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L-functions, Fourier Coe cients, and Eisenstein Series

**Abstract**: The analytic properties of L-functions often have arithmetic content. One can study some of these analytic properties by expressing the L-function as an integral of automorphic forms. This approach is known as the Rankin{Selberg method. We will begin by studying the classical nonholomorphic Eisenstein series and the GL(2) GL(2) Rankin{Selberg method. This will establish a template for us to follow as we consider similar questions on the double cover of GL(2) (the group on which the theta function lives) and GL(3). Finally I will discuss some of my work on determining the Fourier coe cients of an Eisenstein series on the double cover of  $GL(3; \mathbb{R})$  and how this relates to our template.

Wednesday, September 28, 2016 3:10{4:30PM

Bryn Mawr College
Department of Mathematics
Park Science Center **328**Tea and refreshments at 2:50PM in Park 355