

David Lowry-Duda (10:30am on Wednesday, Nov 9, at SCGP 313)

Title:

Modular forms and their L-functions

Abstract:

This talk will begin where my introduction to the Langlands Program from last week left off. We can associate L-functions to many families of nice modular forms. Often, these will behave like the Riemann zeta function. For example, they'll have Euler products and we expect that they satisfy a Riemann hypothesis. After examining these objects, I'll describe an ongoing investigation into half-integral weight modular forms. These are black sheep, since they *don't* satisfy a Riemann hypothesis.