## Philadelphia Area Number Theory Seminar

## **Preston Wake** Institute for Advanced Study

## The Eisenstein ideal

Abstract: In his influential 1978 paper "Modular curves and the Eisenstein ideal", Barry Mazur studied congruences modulo p between cusp forms and the Eisenstein series of weight 2 and prime level N. I'll discuss some natural questions, and recent progress, raised by this work. Questions include: how many of these cusp forms are there? Does their arithmetic differ from forms that are not congruent to the Eisenstein series? What about non-prime levels? Or Hilbert modular forms?

Wednesday, December 12, 2018 2:40 - 4:00 PM

Bryn Mawr College Department of Mathematics Park Science Center **328** Tea and refreshments at 2:20PM in Park 361