



# **MSRI/Evans Talk**

MONDAY, FEBRUARY 7, 2011

4:10PM; 60 EVANS HALL

UNIVERSITY OF CALIFORNIA, BERKELEY

## **“COUNTING INTEGERS”**

**Dr. Henryk Iwaniec**

**(Rutgers University)**

The goal of this lecture is to demonstrate how analytic number theory solves arithmetical problems (like the integral solutions to diophantine equations, or the existence of eigenstates on hyperbolic plane) by counting lattice points, and more generally points of orbits of a group acting on the relevant space. In spite of a bit advanced tools I hope the concepts will be clear for general audience. Some entertaining examples will be shown.

**Refreshments at a nearby establishment immediately following the talk!  
Graduate students and Postdoctoral Fellows are particularly welcome.**

**<http://www.msri.org>**