

**Courant Institute of Mathematical Sciences**  
Mathematics Colloquium  
March 28, 2011

Speaker: **Alex Kontorovitch, Stony Brook**

Title: Sieving in Orbits

Abstract: We will discuss recent progress on the Affine Sieve, which aims to find primes or almost-primes in sets of integers generated by group actions. Topics include expanders, hyperbolic manifolds, the Apollonian gasket, prime entries in matrix groups, and Soddy's spheres.