

## Department Colloquium

Speaker: Francesco Cellarosi

Date: Friday, October 2

Time: 2:30 p.m.

Place: Jeffery 234

Title: Recent progress toward Chowla's and Sarnak's conjectures

**Abstract:** I will present an overview of Sarnak's conjecture on the disjointness of the Möbius function from any deterministic sequence and the related Chowla's conjecture on the self-correlations of the Möbius function. These conjectures are intimately related with topological dynamics and ergodic theory. Some progress towards weaker versions of these conjectures have been made recently, and I plan to illustrate them.