

Stanford University
Departments of Mathematics and Statistics

PROBABILITY SEMINAR

4pm, Monday, January 14, 2019
Sequoia Hall Room 200

Refreshments served at 3:30pm in the Lounge.

Speaker: Evita Nestoridi, *Princeton University*

Title: Mixing time of the upper triangular matrix walk over Z/mZ

Abstract:

We study a natural random walk over the upper triangular matrices, with entries in Z/mZ , generated by steps which add or subtract row $i+1$ to row i . We show that the mixing time of the lazy random walk is $O(n^2m^2)$ which is optimal up to constants. This generalizes a result of Peres and Sly and answers a question of Stong and of Arias-Castro, Diaconis and Stanley.

This is joint work with Allan Sly.