



NYU

**COURANT INSTITUTE OF
MATHEMATICAL SCIENCES**



Professor Vadim Gorin (MIT) will visit NYU and deliver a series of lectures in probability theory in April and May 2017.

His lectures will take place on the following dates:

- Thursday, April 13, 3:20pm to 5:00pm WWH 1302
- Tuesday, April 18, 3:20pm to 5:00pm WWH 201
- Thursday, May 4, 3:20pm to 5:00pm WWH 1302
- Thursday, May 11, 3:20pm to 5:00pm WWH 1302
- Thursday, May 18, 3:20pm to 5:00pm WWH 1302

Title: Macroscopic fluctuations of discrete particle systems

Abstract: Many particle systems of 2d statistical mechanics, random matrix theory, and asymptotic representation theory exhibit similar macroscopic asymptotic behavior leading to smooth limit shapes and log-correlated Gaussian fields. I will present two recent approaches to such theorems based on discrete loop equations and on Schur generating functions.