



Dipartimento
di Matematica



UNIVERSITÀ DI PISA

Colloquium del Dipartimento di Matematica

5 Dicembre, ore 16:00
Aula Magna



Lauren K. Williams

Harvard University (USA)

Combinatorics of hopping particles and positivity in Markov chains

The asymmetric simple exclusion process (ASEP) is a model for translation in protein synthesis and traffic flow; it can be defined as a Markov chain describing particles hopping on a one-dimensional lattice. I will give an overview of some of the connections of the stationary distribution of the ASEP to combinatorics and special functions. I will also mention some open problems and observations about positivity in Markov chains.



Un rinfresco verrà servito a termine del Colloquium.