

SEMINARIO SISTEMAS DINÁMICOS DE SANTIAGO.

EXPOSITOR(A): Aline Melo (Federal University of Rio de Janeiro, Brasil)

TÍTULO: *Analyticity of The Lyapunov Exponents of Random Products of Matrices.*

RESUMEN: In this talk, we extend the results and methods of Y. Peres from a finite to an infinite (but compact) space of symbols. In other words, we establish the analyticity of the maximal Lyapunov exponent for independent and identically random products of matrices as a function of the transition probabilities. Our approach combines the spectral properties of the associated Markov operator with the theory of holomorphic functions in Banach spaces. This is a joint work with Artur Amorim and Marcelo Durães.

DÍA / HORA: Lunes 4 de agosto, 2025 / 16:30 - 17:30 hrs.

LUGAR: Sala de Seminarios Maryam Mirzakhani, Departamento de Matemáticas, Campus Juan Gómez Millas, Universidad de Chile

