报告题目: Infinite products of large random matrices

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报告摘要:

Products of M i.i.d. random matrices of size N relate classical limit theorems in Probability Theory (large M and N=1) to Lyapunov exponents in Dynamical Systems (large M and finite N), and to universality in Random Matrix Theory (finite M and large N). Under the two different limits of large M and large N, the eigenvalue statistics for the random matrix product display Gaussian and RMT universality, respectively. However, what happens if both M and N go to infinity simultaneously? This problem lies at the heart of understanding two kinds of universal limits. In this talk we examine it and investigate possible phase transition and critical phenomena.