
EMMA BAILEY, University of Bristol

Random matrices and L -functions: moments of moments, branching, and log-correlation

Recently there has been a great deal of interest in understanding the moments of partition functions of logarithmically correlated processes. Particular examples of note are the logarithm of the zeta function over short intervals, the logarithm of characteristic polynomials of unitary matrices, and random walks on binary trees. In this talk I will present results for the moments of partition functions of such processes. This analysis also leads to conjectures for other families of primitive L -functions. This is joint work with Jon Keating and Theo Assiotis.