

Strong Szegö asymptotics for the Riemann zeta function

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Fluctuations of random matrix theory type have are conjectured to give the distribution of zeta zeros in the microscopic regime. At the mesoscopic scale, the analogy still holds, through a limiting Gaussian field, which present an ultrametric structure similar to log-gases. In particular we will present an unconditional proof for an analogue of the strong Szegö theorem, for L -functions.

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