

ROOTS OF RANDOM TRIGONOMETRIC POLYNOMIALS WITH GENERAL DEPENDENT COEFFICIENTS

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Abstract

We consider random trigonometric polynomials with general dependent coefficients. We show that under mild hypotheses on the structure of dependence of the latter, the asymptotics as the degree goes to infinity of the expected number of real zeros coincides with the one in the case of independent coefficients. To the best of our knowledge, this universality statement is the first obtained in a non-Gaussian dependent context. Joint work with Oanh Nguyen and Guillaume Poly.