

1127-60-40

Christopher Dean Sinclair and **Maxim L. Yattselev*** (maxyatts@iupui.edu). *Root statistics of random polynomials with bounded Mahler measure.*

The Mahler measure of a polynomial is a measure of complexity formed by taking the modulus of the leading coefficient times the modulus of the product of its roots outside the unit circle. The roots of a real degree N polynomial chosen uniformly from the set of polynomials of Mahler measure at most 1 yields a Pfaffian point process on the complex plane. When N is large, with probability tending to 1, the roots tend to the unit circle. In this talk, the asymptotics of the scaled kernel in a neighborhood of a point on the unit circle will be described. (Received January 06, 2017)