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Bernard Shiffman* (bshiffman@jhu.edu). *Correlation of random zeros on Kähler manifolds and off-diagonal asymptotics of the Bergman kernel.*

Independent random points on a compact Riemann surface tend to “cluster,” while the zeros of a random holomorphic section of a line bundle of high degree tend not to cluster due to their correlation. In this talk, I shall discuss asymptotic formulas for the pair correlation of zeros of Gaussian random sections of powers of a positive line bundle on a compact Kähler manifold. These formulas use the off-diagonal expansion of the Bergman kernel. (Received January 28, 2019)