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Some recent results on Gaussian random fields over Kahler manifolds

I will present some results on Gaussian Random holomorphic sections over Kahler manifolds which is a generalization of Kac's polynomials to Kahler manifolds. The distribution of zeros is studied by Bleher-Shiffman-Zelditch; critical points by Douglas-Shiffman-Zelditch. Recently, I studied the critical values on $SU(2)$ random polynomials with Z. Wang; I also studied critical values of random holomorphic sections on compact Kahler manifolds under the both Gaussian and Spherical ensembles with S.Zelditch.