VIRTUAL EAST-WEST SCV SEMINAR

March 16, 2021

Turgay BAYRAKTAR
Sabanci University

Universality results for zeros of random holomorphic sections

---

I will present several universality result regarding the equidistribution of zeros of random holomorphic sections associated to a sequence of singular Hermitian holomorphic line bundles on a compact Kähler complex space X. Namely, under mild moment assumptions, we show that the asymptotic distribution of zeros of random holomorphic sections is independent of the choice of the probability measure on the space of holomorphic sections. In the case when X is a compact Kähler manifold, we also prove an off-diagonal exponential decay estimate for the Bergman kernels of a sequence of positive line bundles on X. The talk is based on joint work with Dan Coman and George Marinescu.