

March 30, 2022

Speaker: Grisha Korchemsky

Title: Solving AdS/CFT with the strong Szegö limit theorem

The strong Szegö limit theorem describes the asymptotic behavior of determinants of large Toeplitz matrices. It has important applications in theoretical physics, ranging from two-dimensional Ising model to the theory of random matrices. In this talk, I will show how this theorem can be effectively applied to computing four-point correlation functions of infinitely heavy half-BPS operators in planar $N = 4$ SYM.