Date: 2020.12.10. 9:00-10:00 am (Beijing time).

Tencent meeting: 891 5588 3941

Zoom: 633 385 49189 (psw 123456)

Speaker: Jiaoyang Huang (New York University)

Title: Height Fluctuations of Random Lozenge Tilings Through Nonintersecting Random Walks

Abstract:

In this talk, we will discuss global fluctuations of random lozenge tilings of polygonal domains. We study their height functions from a dynamical pointview, by identifying lozenge tilings with nonintersecting Bernoulli random walks. For a large class of polygons which have exactly one horizontal upper boundary edge, we show that these random height functions converge to a Gaussian Free Field as predicted by Kenyon and Okounkov.