

北京师范大学 随机数学研究中心

学术报告

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题目: Scaling limits of the Laguerre unitary ensemble

时间: 2021年11月29日 (周一) 上午10:00-11:00

地点: Zoom 848 741 764 35 (pw: 123 456)

摘要: In this talk, we will discuss the LUE with a focus on the scaling limits. On the hard-edge side, we construct the α -Bessel line ensemble for all $\alpha \in \mathbb{N}_0$. This is a novel Gibbsian line ensemble that enjoys the α -squared Bessel Gibbs property. Moreover, all α -Bessel line ensembles can be naturally coupled together in a Bessel field, which enjoys rich integrable structures. We will also talk about work in progress on the soft-edge side, where we expect to have the Airy field as the scaling limit. This talk is based on joint works with Lucas Benigni, Pei-Ken Hung, and Greg Lawler.