



复旦大学数学科学学院 数学综合报告会

报告题目: **The Lyons-Peres conjecture**

报告人: 邱彦奇

(中科院数学与系统科学研究院)

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报告地点: 光华东主楼 1801

摘要: I will explain the Lyons-Peres conjecture in the theory of determinantal point processes (DPP). This conjecture asks certain completeness of a DPP with orthogonal projection correlation kernel. In a particular case, it asks whether almost surely the random set of zeros of the Gaussian random analytic function is the set of uniqueness for Bergman space. Recently, in a joint work with Alexander Bufetov and Alexander Shamov, we solve completely the Lyons-Peres conjecture. Our method is based on proving the existence and a new local property of conditional correlation kernels for conditional DPP.

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