



复旦大学数学科学学院 数学综合报告会

报告题目: Towards solvability of Compactified Imaginary Liouville Theory

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时间: 2026-02-02 星期一 10:00-11:00

地点: 光华楼东主楼1601

报告摘要:

On a given Riemann surface, C. Guillarmou, A. Kupiainen and R. Rhodes constructed a path integral based on the Liouville action functional with imaginary parameters, called the Compactified Imaginary Liouville Theory (CILT). They proved that CILT is a conformal field theory (CFT) and satisfies Segal's axioms. In this talk I will go through their construction of CILT, with some motivation (coulomb gas & minimal models) and intuition (critical loop models). If time permitted, I will also talk about some general techniques of CFT ever since Belavin, Polyakov and Zamolodchikov, 1984 and how they can solve the conformal bootstrap program. This talk is also based on joint (ongoing) work with C. Guillarmou, A. Kupiainen, R. Rhodes and Y. Xie.

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