



Probability Seminar

Title: Level sets of the Gaussian free field

Speaker: Avelio Sepúlveda (Santiago)

Date: Wed 3rd March 2021 at 3:00PM

Location: Online

Abstract: We will study the level sets of the two-dimensional continuum Gaussian free field. These are conformally invariant fractal sets that have played a key role in the modern understanding of the geometric properties of the Gaussian free field and the Liouville measure. In this talk, I will present their axiomatic definition, give an idea of their construction, and discuss some of their main geometrical properties: their fractal dimension; and the connectivity properties of them and the loops they form. This talk is based on joint works with Juhan Aru, Titus Lupu, Lukas Schoug, Fredrik Viklund and Wendelin Werner.

Zoom Link: <https://ucd-ie.zoom.us/j/83491228915?pwd=WWV3ZkNGNzVXdGxLRlR0dkdMYUtMZz0>

Meeting ID: 834 9122 8915 Passcode: 698437