

SEMINARIO CONJUNTO

NUCLEO MILENIO-MODALAMIENTO ESTOCÁSTICO

Title:

TWO-VALUED ENSEMBLE OF THE GAUSSIAN FREE FIELD

Speaker:

Avelio Sepúlveda

ETH Zürich

ABSTRACT:

The goal of this talk is to understand thin local sets of the continuous Gaussian free field (GFF) in a domain of $\mathbb{R}^2$, whose corresponding harmonic function takes only two values. We give a characterization of these sets and use it to show that in some sense they are maximal in a bigger class of local sets, where we only ask the function to be bounded. Important corollaries of this work are new constructions of the Conformal Loop Ensemble CLE_4 and a new perspective on the two known couplings between CLE_4 and the GFF. Joint work with JUHAN ARU and WENDELIN WERNER.

Jueves 15 de Septiembre a las 14:30 hrs. Sala de Seminarios John Von Neumann CMM, séptimo piso, torre norte.

