

Inn'formal Probability Seminar

Alexander Drewitz (Universität zu Köln)

“(Near-)critical behavior of a strongly
correlated percolation model”

Abstract:

For (near-)critical independent Bernoulli percolation, particularly profound results have been obtained in the high-dimensional setting as well as on planar lattices. We consider a strongly correlated percolation model — the level sets of the metric graph Gaussian free field — where significant understanding has also been developed regarding its (near-)critical behavior in intermediate dimensions. We will explain the origin of the model's integrability, and discuss its implications for the associated universality class. A particular focus will be on recent results for the critical exponents associated to the volume of critical connected components.

Tuesday | 01.04.2025 | 15:30
HS 10, Architekturgebäude