ABSTRACT OF THE TALK

Consider 2 or 3-dimensional Brownian motion. We prove that the Minkowski content of the set of its cut points is a.s. finite and non-trivial. If time permits, I will also explain how we identify the Minkowski content with the scaling limit of the counting measure of pivotal points for percolation on the triangular lattice in the 2-dimensional case. This is a joint project with Nina Holden, Greg Lawler and Xin Sun.

BIOGRAPHY

Xinyi Li is an L. E. Dickson Instructor at the University of Chicago. He graduated from Peking University and Paris Dauphine University before receiving his PhD degree in mathematics from ETH Zurich. His research interests include Random Walk, Brownian motion, Random interlacements, Brownian interlacements and other models for percolation with long-range correlation.