

Random graphs and its applications for networks

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Study of percolation on triangulations by generating functions

We are interested in the model of site percolation and bond percolation on random planar triangulations. Using a recursive decomposition of monochromatic maps with a boundary and generating function techniques that originated in Tutte's work, we identify the critical point of these models, as well as information about the size and geometry of the critical clusters in subcritical, critical, and supercritical regimes.

Work in collaboration with Olivier Bernardi and Nicolas Curien.