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Einladung
zum
Mathematischen Kolloquium

Am Mittwoch, dem 13. Mai 2026, um 16:30 Uhr im Hörsaal des
Mathematischen Instituts (Raum 203), Weyertal 86–90, 50931 Köln

Es spricht

Prof. Dr. Tom Hutchcroft
California Institute of Technology

zum Thema

Critical long-range percolation

It is conjectured that many models of statistical mechanics have a rich, fractal-like behaviour at and near their points of phase transition, with power-law scaling governed by critical exponents that are expected to depend on the dimension but not on the small-scale details of the model such as the choice of lattice. This is now reasonably well understood in two dimensions and in high dimensions, but remains poorly understood in intermediate dimensions (e.g. $d=3$). I will overview the conjectures around this area and describe recent progress on related problems for models with long-range interactions.

Kaffee + Tee um 16 Uhr in der Bibliothek des Mathematischen Instituts.

Alle Interessenten sind herzlich eingeladen.

Die Dozenten der Mathematik