Seminar/Talk

Critical long-range percolation

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Host: Laszlo Erdös & Jan Maas

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.

Monday, March 2, 2026 05:00pm - 06:00pm
Central Bldg / O1 / Mondi 2a (I01.O1.008)

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