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Metric Graph Extensions of Lattice Models with Applications in Stat Mech and Quantum Systems

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As a counterpoint to "be wise and discretize", continuous extensions are relevant and provide useful perspective. They occasionally pose challenges but also yield new tools. Examples of both may be found in: the contact process as extension of discrete percolation, long-range 1D Ising and percolation models, the quantum Ising model, quantum spin chains, influence propagation in the random-field Ising model estimated through a stopping time argument, extensions of discrete random height functions, and new results for the Villain O(2) spin system though its metric graph representation.

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