

SOME STOCHASTIC MODELS ON HIERARCHICAL LATTICES

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This is a short overview of some results and open problems on stochastic systems on a class of ultrametric spaces called hierarchical lattices, including hierarchical random walks, (long-range) percolation and simple random walks on percolation clusters. Motivations for stochastic systems on ultrametric spaces come from the evolution of hierarchically organized systems in population genetics, statistical physics, protein dynamics and other areas.

This talk is based on joint work with Donald Dawson.