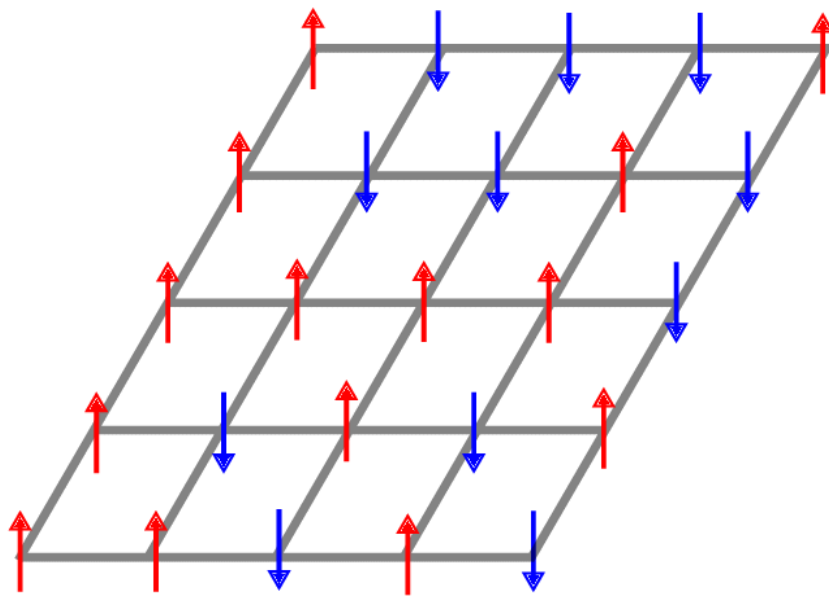# Simulating the Ising Model

In this project you will implement one of the most popular Markov Chain Monte Carlo algorithms, the Metropolis algorithm, to simulate the states of an Ising model at a chosen temperature. You will simulate a 2D Ising model and study the phase transition between the disordered phase and the ordered phase. If time permits, you will modify your algorithm to study the out-of-equilibrium dynamics of the Ising model (the systems will be prepared at high temperature and cooled down to temperature under the critical point).

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