

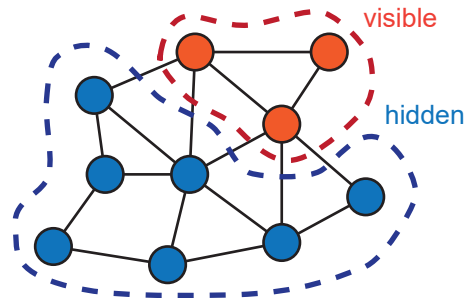
Application domains of probabilistic computing with p-bits

machine learning & AI

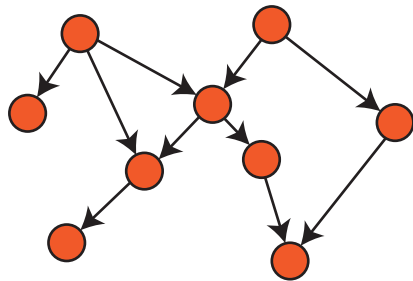
massively parallel
true random
number generation

...01000101100100010101
10011010101001011
010100101001001001010
010010001001001001010

training & inference
of energy-based
models

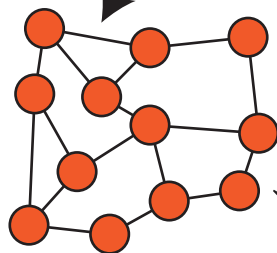
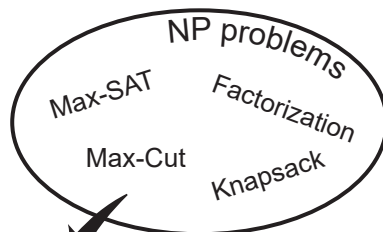


training & inference
of belief networks

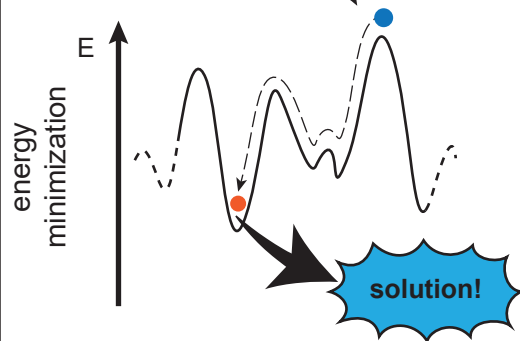


combinatorial optimization

QUBO/Ising machines

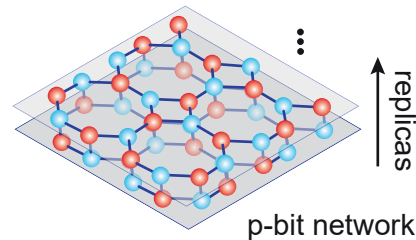


graph
representation



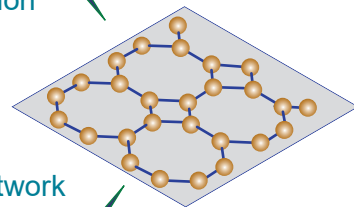
quantum simulation

quantum Monte Carlo



qubit network

trotterization



neural network
ansatz

machine learning
quantum systems

