Sanity Checks on Flat Energy Landscape

ε-flatness and CHop Probabilities

- Direct simulations: mean 0.0975, standard deviation 0.0075, range $[0.0820, 0.1185]$, $\varepsilon = 0.0365$
- CHop probability: 0.1100

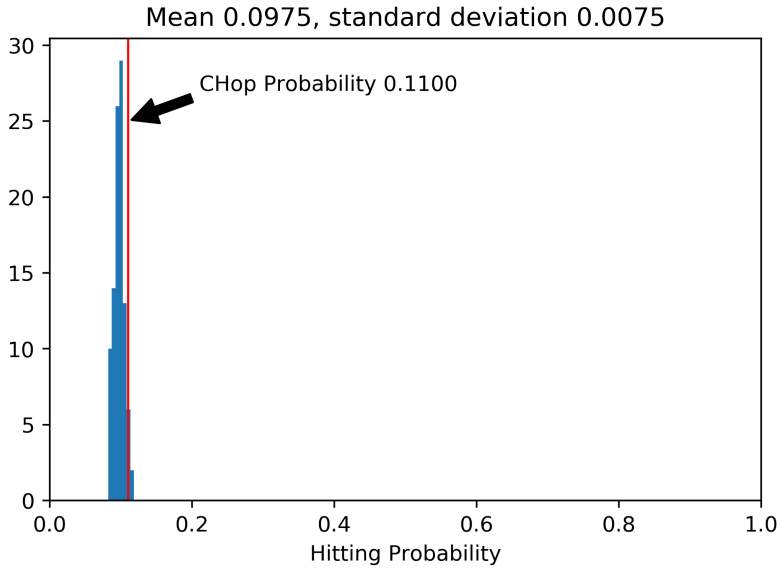

Figure 1: ε-flatness and CHop Probabilities for Flat Energy Landscape

Capacity Estimation on Flat Energy Landscape

- Exact value: 0.000637
- Estimate from capacity estimation algorithm: 0.000553

Results on Nontrivial Energy Landscape

ε-flatness and CHop Probabilities

- Direct simulations: mean 0.8180, standard deviation 0.0096, range $[0.7980, 0.8450]$, $\varepsilon = 0.0470$
- CHop probability: 0.8274

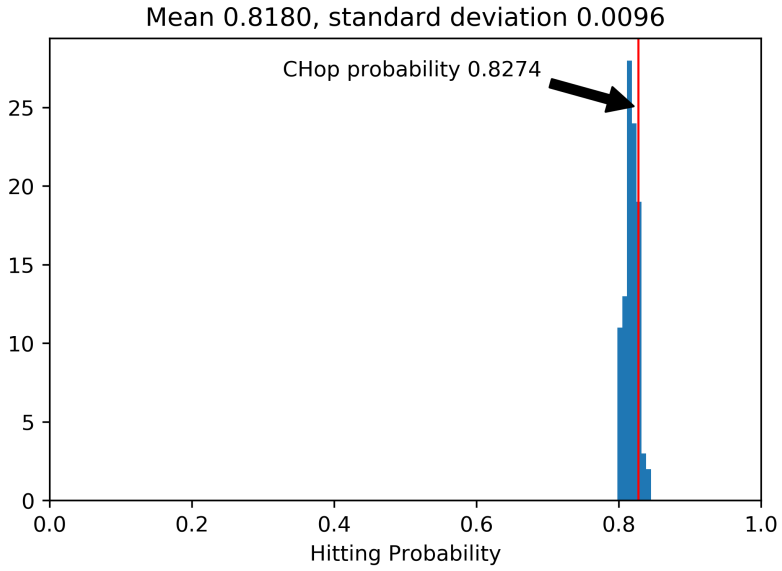

Figure 2: ε-flatness and CHop Probabilities for Nontrivial Energy Landscape

Efficiency of the Capacity Estimation Algorithm

- Direct simulation: 89177.87 seconds (3715.74 seconds on 24 CPUs)
- CHop speed: 1055.55 seconds on a single CPU

Even faster CHop

- Estimated CHop probability: 0.8420
- Speed: 119.35 on a single CPU