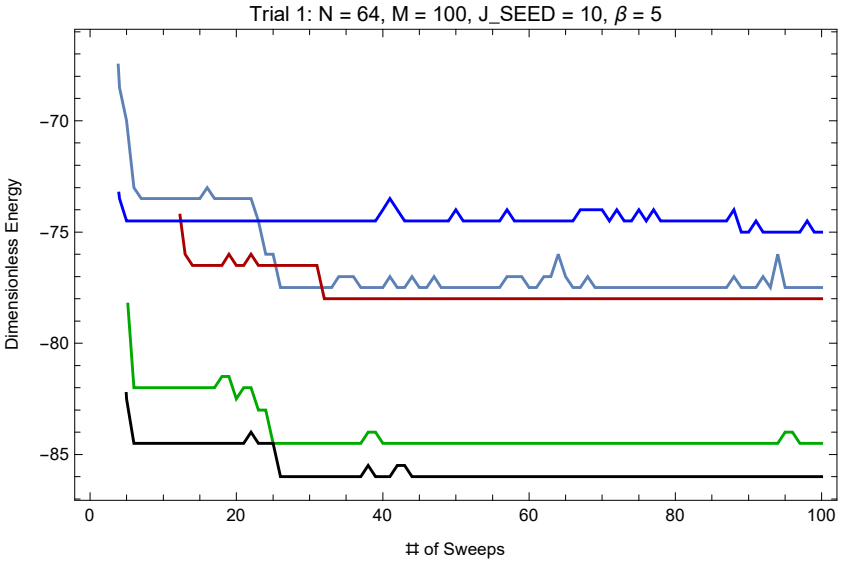
Brendan Philbin
Several Seeds Analysis

Import Relevant Files

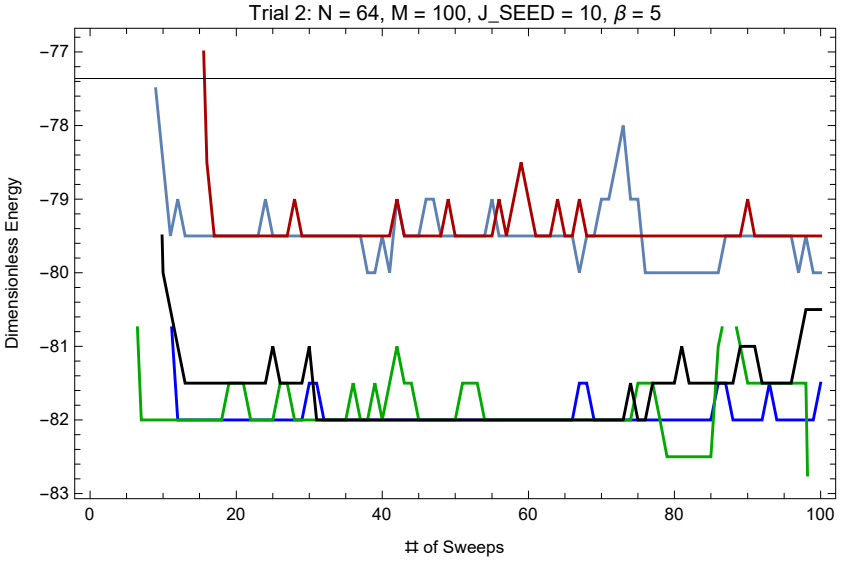
In[ ]:=
```
Clear["Global`*"];
SetDirectory[NotebookDirectory[]];
numSweeps = Range[0, 100];
colors = {Darker[Red], Blue, Darker[Green], Black, Orange};

For[t = 1, t ≤ 3, t++,
  For[r = 0, r ≤ 4, r++,
   Evaluate[Symbol["rawTrial" <> ToString[t] <> "r" <> ToString[r]]] = Flatten[
     Import["several_seeds_output" <> ToString[t] <> "_r" <> ToString[r] <> ".csv"]];
   Evaluate[Symbol["trial" <> ToString[t] <> "r" <> ToString[r]]] = Transpose[
     {numSweeps, Evaluate[Symbol["rawTrial" <> ToString[t] <> "r" <> ToString[r]]]}];
   Evaluate[Symbol["plot" <> ToString[t] <> "r" <> ToString[r]]] = ListLinePlot[Evaluate[
      Symbol["trial" <> ToString[t] <> "r" <> ToString[r]]], PlotStyle → colors[[r]]];
  ]
 ];
```

In[ ]:=
```
Show[plot1r0, plot1r1, plot1r2, plot1r3, plot1r4, Frame → True,
 FrameLabel → {"# of Sweeps", "Dimensionless Energy"}, PlotRange → All,
 PlotLabel → "Trial 1: N = 64, M = 100, J_SEED = 10, β = 5", LabelStyle → Black]
Show[plot2r0, plot2r1, plot2r2, plot2r3, plot2r4, Frame → True,
 FrameLabel → {"# of Sweeps", "Dimensionless Energy"}, PlotRange → All,
 PlotLabel → "Trial 2: N = 64, M = 100, J_SEED = 10, β = 5", LabelStyle → Black]
Show[plot3r0, plot3r1, plot3r2, plot3r3, plot3r4, Frame → True,
 FrameLabel → {"# of Sweeps", "Dimensionless Energy"}, PlotRange → All,
 PlotLabel → "Trial 3: N = 64, M = 100, J_SEED = 10, β = 5", LabelStyle → Black]
```

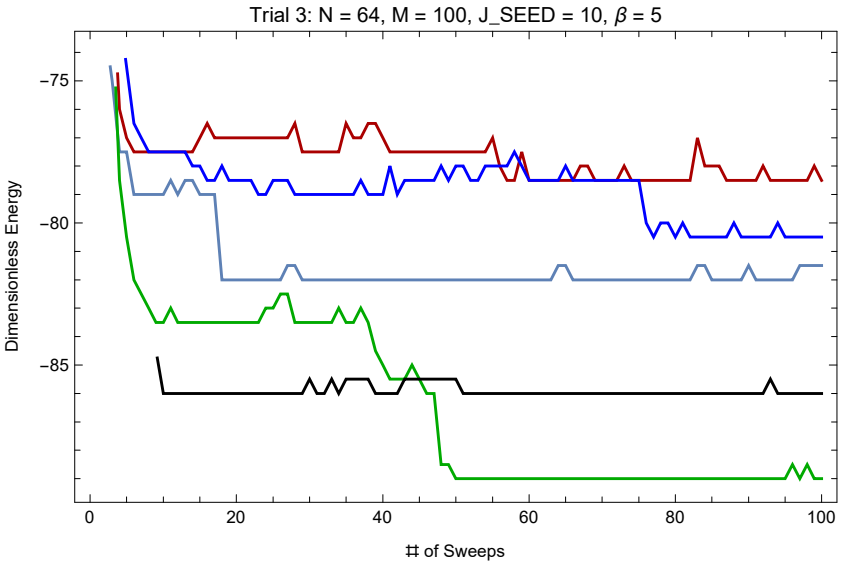
Out[•]=


Trial 1: N = 64, M = 100, J_SEED = 10, β = 5
Dimensionless Energy
−70
−75
−80
−85
0
20
40
60
80
100
# of Sweeps

Out[•]=


Trial 2: N = 64, M = 100, J_SEED = 10, β = 5
Dimensionless Energy
−77
−78
−79
−80
−81
−82
−83
0
20
40
60
80
100
# of Sweeps

Out[•]=


Trial 3: N = 64, M = 100, J_SEED = 10, β = 5
Dimensionless Energy
−75
−80
−85
0
20
40
60
80
100
# of Sweeps