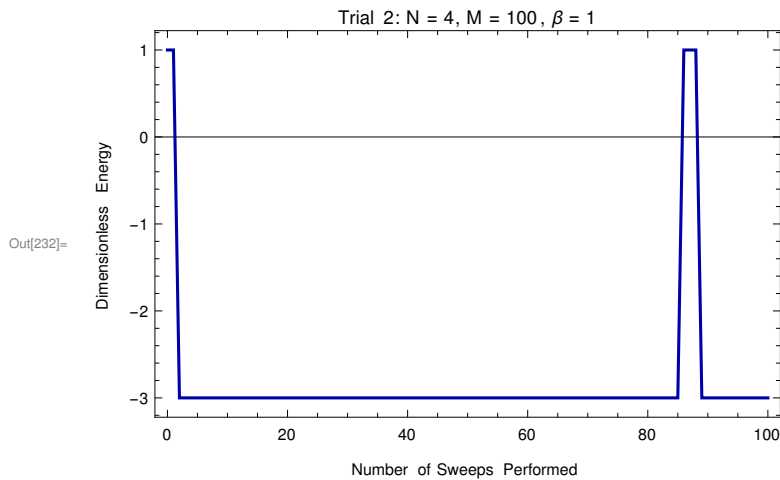


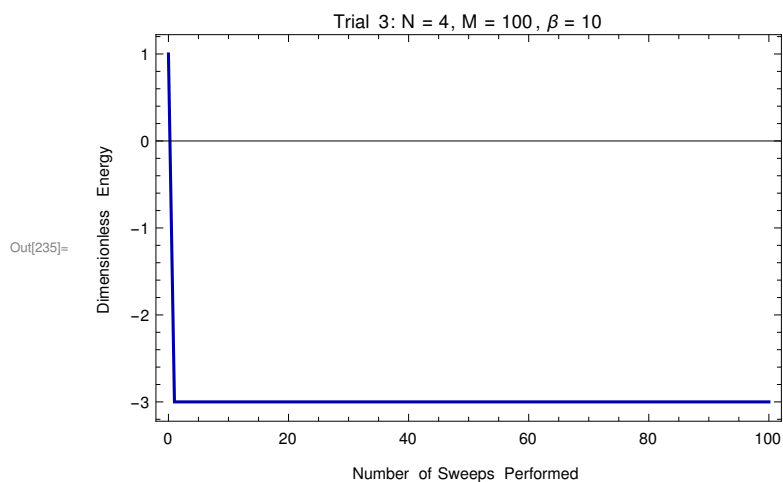
Trial 2: $N = 4$, $M = 100$, $\beta = 1$, $J = +1$, $J_seed = 3$, $MC_seed = 6$, $Spins_seed = 2$

```
In[230]:= trial2 = Flatten[Import["ising_output2.csv", "CSV"]];  
trial2data = Transpose[{numSweeps, trial2}];  
trial2plot = ListLinePlot[trial2data, Frame → True,  
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},  
  PlotLabel → "Trial 2: N = 4, M = 100,  $\beta = 1$ ",  
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



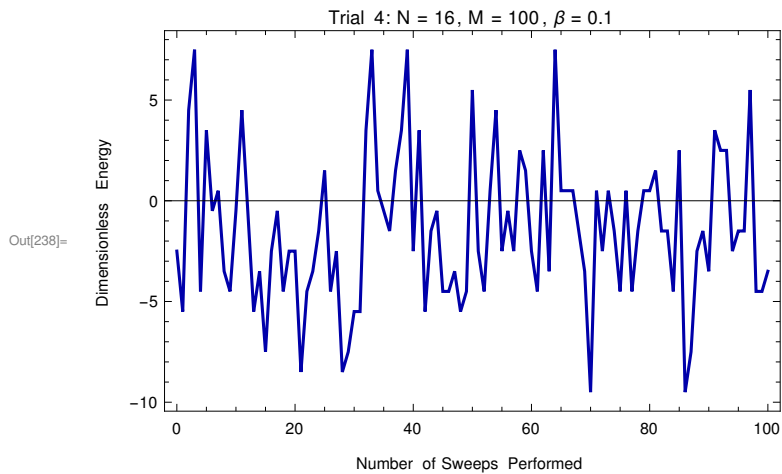
Trial 3: $N = 4$, $M = 100$, $\beta = 10$, $J = +1$, $J_seed = 3$, $MC_seed = 7$, $Spins_seed = 3$

```
In[233]:= trial3 = Flatten[Import["ising_output3.csv", "CSV"]];
trial3data = Transpose[{numSweeps, trial3}];
trial3plot = ListLinePlot[trial3data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 3: N = 4, M = 100,  $\beta = 10$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



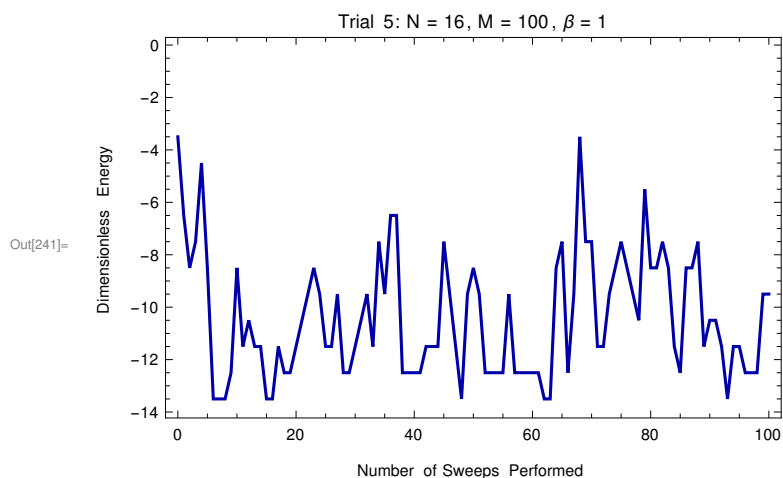
Trial 4: $N = 16$, $M = 100$, $\beta = 0.1$, $J = +1$, $J_{\text{seed}} = 4$, $MC_{\text{seed}} = 8$, $\text{Spins}_{\text{seed}} = 4$

```
In[236]:= trial4 = Flatten[Import["ising_output4.csv", "CSV"]];
trial4data = Transpose[{numSweeps, trial4}];
trial4plot = ListLinePlot[trial4data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 4: N = 16, M = 100,  $\beta = 0.1$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



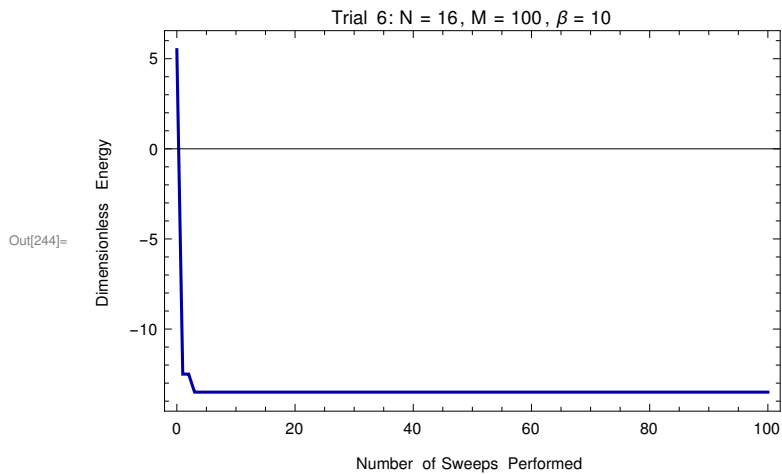
Trial 5: $N = 16$, $M = 100$, $\beta = 1$, $J = +1$, $J_seed = 4$, $MC_seed = 9$, $Spins_seed = 5$

```
In[239]:= trial5 = Flatten[Import["ising_output5.csv", "CSV"]];
trial5data = Transpose[{numSweeps, trial5}];
trial5plot = ListLinePlot[trial5data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 5: N = 16, M = 100,  $\beta = 1$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



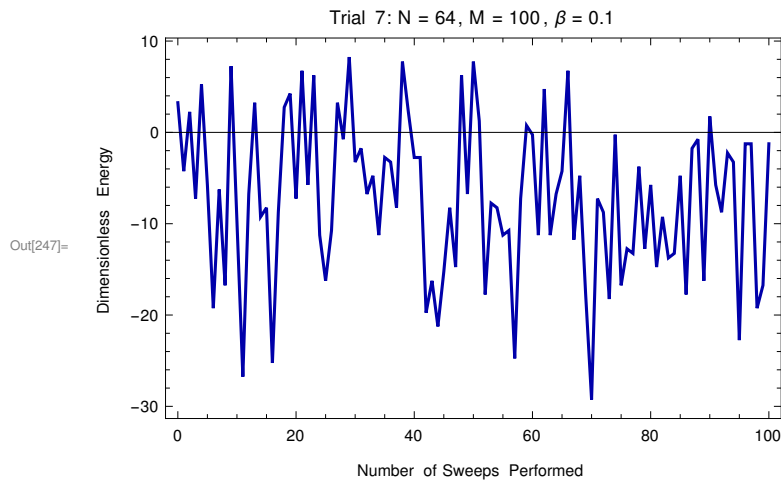
Trial 6: $N = 16$, $M = 100$, $\beta = 10$, $J = +1$, $J_seed = 4$, $MC_seed = 10$, $Spins_seed = 6$

```
In[242]:= trial6 = Flatten[Import["ising_output6.csv", "CSV"]];  
trial6data = Transpose[{numSweeps, trial6}];  
trial6plot = ListLinePlot[trial6data, Frame → True,  
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},  
  PlotLabel → "Trial 6: N = 16, M = 100,  $\beta = 10$ ",  
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



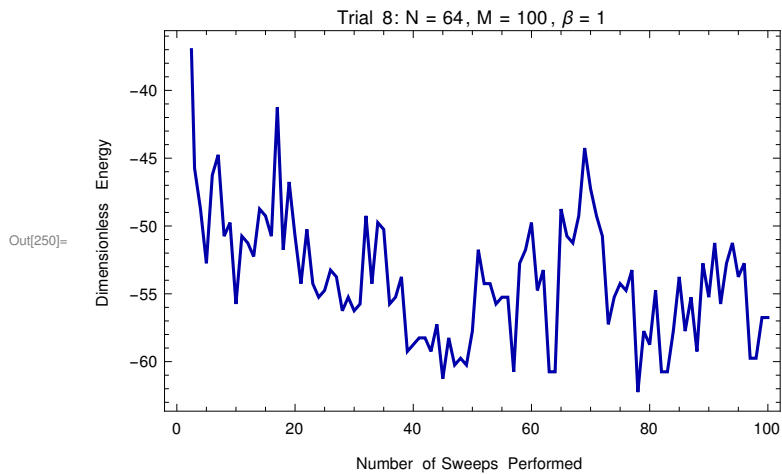
Trial 7: $N = 64$, $M = 100$, $\beta = 0.1$, $J = +1$, $J_{\text{seed}} = 5$, $MC_{\text{seed}} = 11$, $\text{Spins}_{\text{seed}} = 7$

```
In[245]:= trial7 = Flatten[Import["ising_output7.csv", "CSV"]];
trial7data = Transpose[{numSweeps, trial7}];
trial7plot = ListLinePlot[trial7data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 7: N = 64, M = 100,  $\beta = 0.1$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



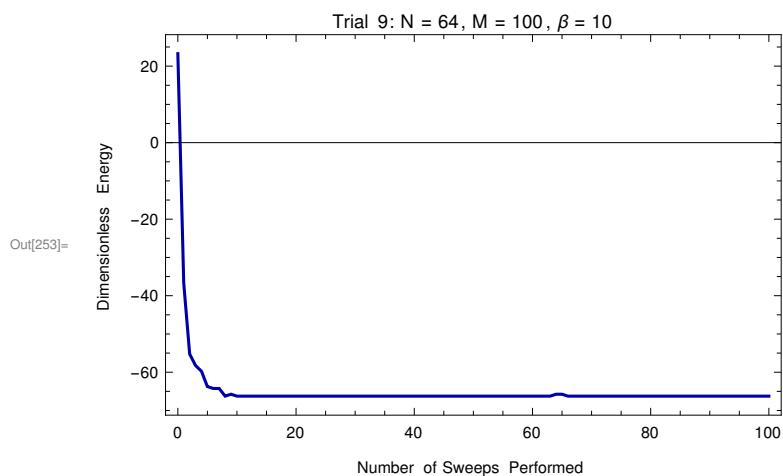
Trial 8: $N = 64$, $M = 100$, $\beta = 1$, $J = +1$, $J_{\text{seed}} = 5$, $MC_{\text{seed}} = 12$, $\text{Spins}_{\text{seed}} = 8$

```
In[248]:= trial8 = Flatten[Import["ising_output8.csv", "CSV"]];
trial8data = Transpose[{numSweeps, trial8}];
trial8plot = ListLinePlot[trial8data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 8: N = 64, M = 100,  $\beta = 1$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



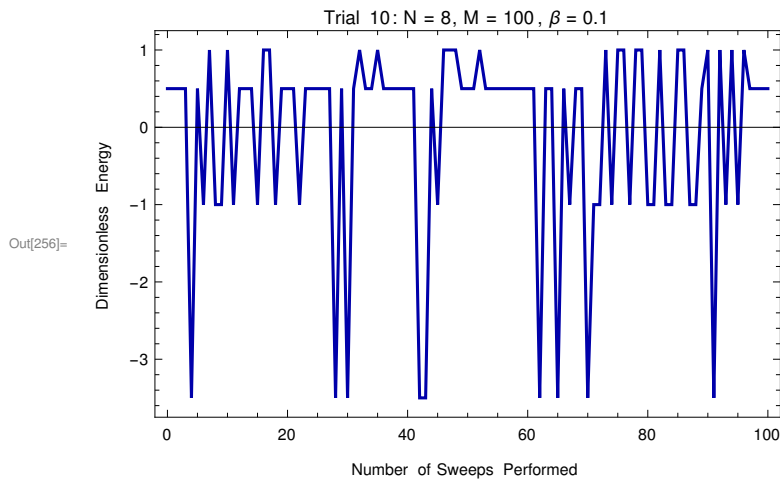
Trial 9: $N = 64$, $M = 100$, $\beta = 10$, $J = +1$, $J_seed = 5$, $MC_seed = 13$, $Spins_seed = 9$

```
In[251]:= trial9 = Flatten[Import["ising_output9.csv", "CSV"]];
trial9data = Transpose[{numSweeps, trial9}];
trial9plot = ListLinePlot[trial9data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 9: N = 64, M = 100,  $\beta = 10$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



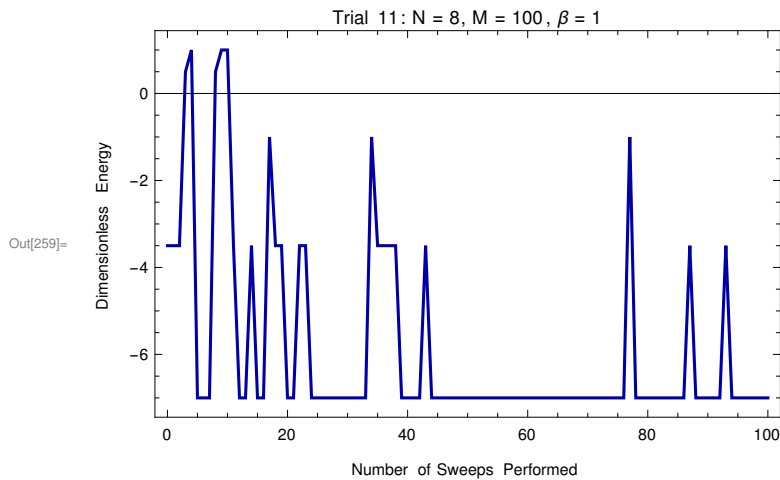
Trial 10: $N = 8$, $M = 100$, $\beta = 0.1$, $J = +/-1$, $J_seed = 6$,
 $MC_seed = 14$, $Spins_seed = 10$

```
In[254]:= trial10 = Flatten[Import["ising_output10.csv", "CSV"]];
trial10data = Transpose[{numSweeps, trial10}];
trial10plot = ListLinePlot[trial10data, Frame → True,
  FrameLabel → {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel → "Trial 10: N = 8, M = 100,  $\beta = 0.1$ ",
  PlotStyle → Darker[Blue], FrameStyle → Black, LabelStyle → Black]
```



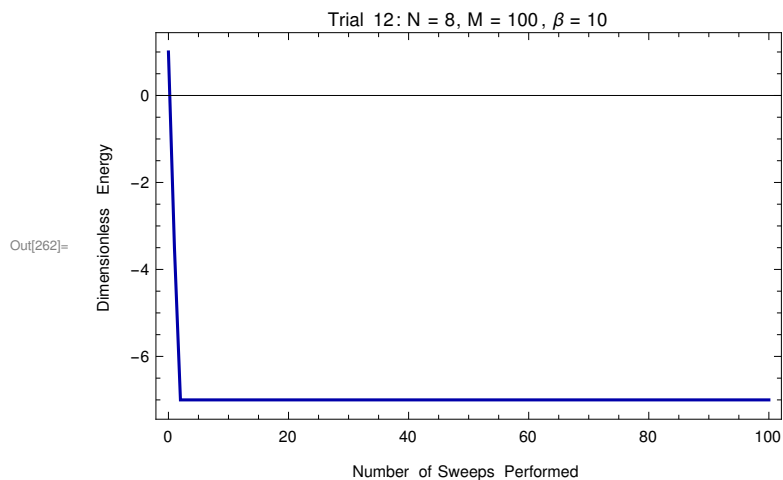
Trial 11: $N = 8$, $M = 100$, $\beta = 1$, $J = +/-1$, $J_seed = 6$, $MC_seed = 15$, $Spins_seed = 11$

```
In[257]:= trial11 = Flatten[Import["ising_output11.csv", "CSV"]];
trial11data = Transpose[{numSweeps, trial11}];
trial11plot = ListLinePlot[trial11data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 11: N = 8, M = 100,  $\beta = 1$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



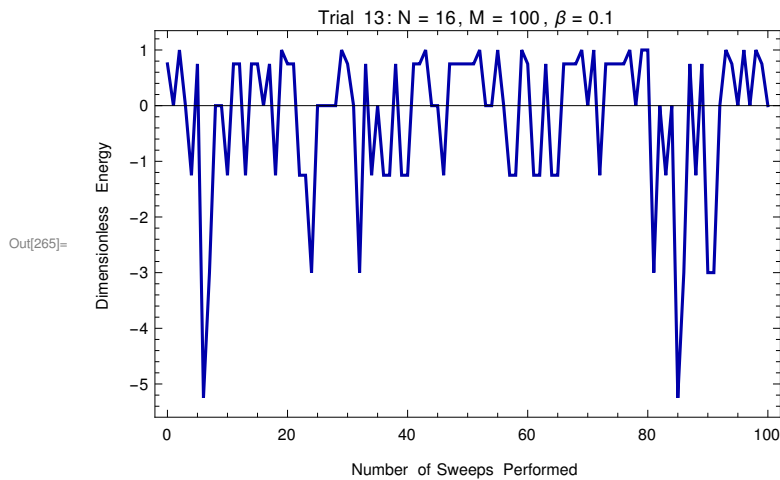
Trial 12: $N = 8$, $M = 100$, $\beta = 10$, $J = +/-1$, $J_seed = 6$,
 $MC_seed = 16$, $Spins_seed = 12$

```
In[260]:= trial12 = Flatten[Import["ising_output12.csv", "CSV"]];  
trial12data = Transpose[{numSweeps, trial12}];  
trial12plot = ListLinePlot[trial12data, Frame -> True,  
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},  
  PlotLabel -> "Trial 12: N = 8, M = 100,  $\beta = 10$ ",  
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



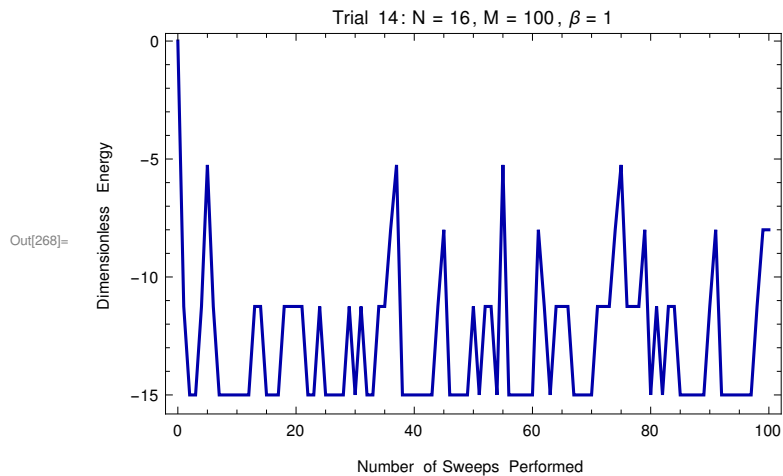
Trial 13: $N = 16$, $M = 100$, $\beta = 0.1$, $J = +/-1$, $J_{\text{seed}} = 7$, $MC_{\text{seed}} = 17$, $Spins_{\text{seed}} = 13$

```
In[263]:= trial13 = Flatten[Import["ising_output13.csv", "CSV"]];
trial13data = Transpose[{numSweeps, trial13}];
trial13plot = ListLinePlot[trial13data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 13: N = 16, M = 100,  $\beta = 0.1$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



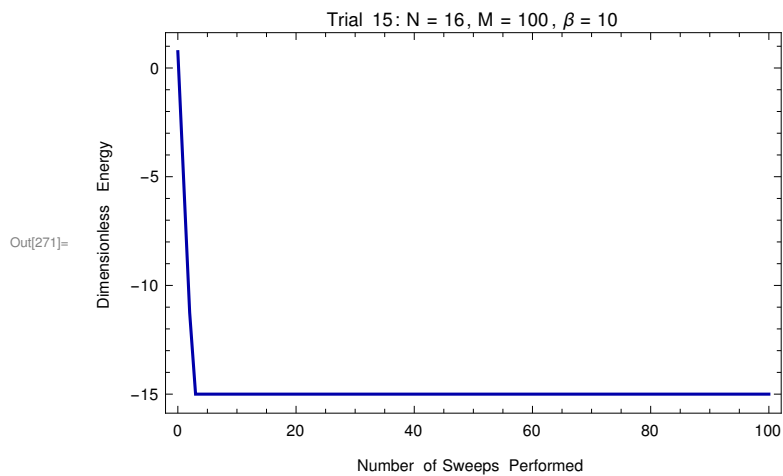
Trial 14: $N = 16$, $M = 100$, $\beta = 1$, $J = +/-1$, $J_seed = 7$, $MC_seed = 18$, $Spins_seed = 14$

```
In[266]:= trial14 = Flatten[Import["ising_output14.csv", "CSV"]];
trial14data = Transpose[{numSweeps, trial14}];
trial14plot = ListLinePlot[trial14data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 14: N = 16, M = 100,  $\beta = 1$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



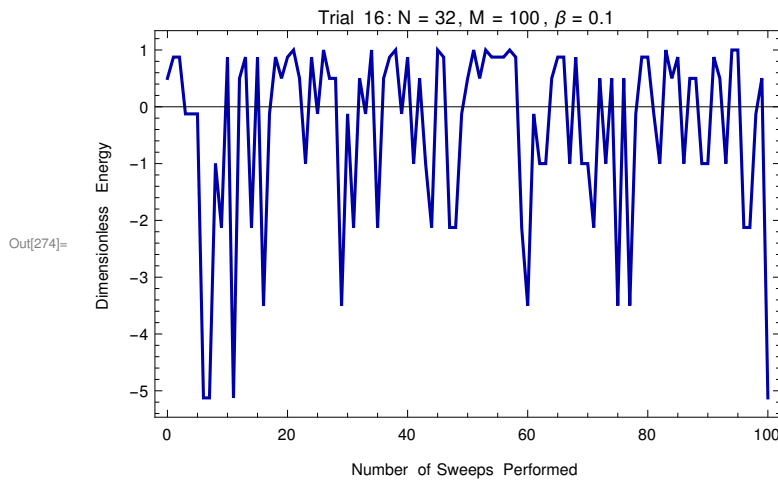
Trial 15: $N = 16$, $M = 100$, $\beta = 10$, $J = +/-1$, $J_seed = 7$, MC_seed = 1, Spins_seed = 15

```
In[269]:= trial15 = Flatten[Import["ising_output15.csv", "CSV"]];
trial15data = Transpose[{numSweeps, trial15}];
trial15plot = ListLinePlot[trial15data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 15: N = 16, M = 100,  $\beta = 10$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



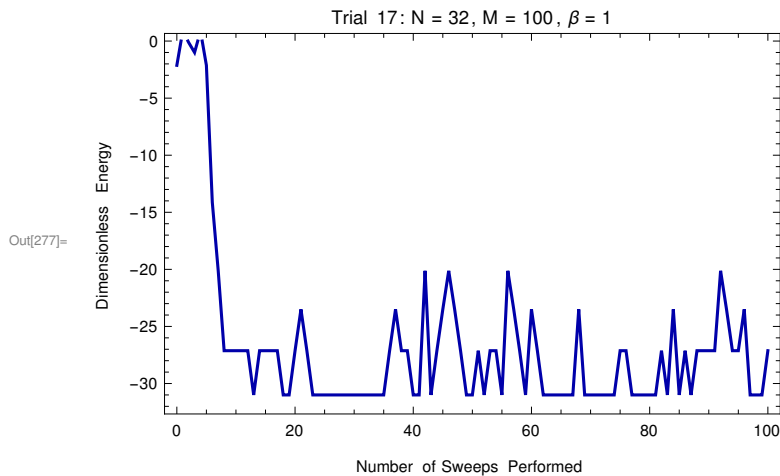
Trial 16: $N = 32$, $M = 100$, $\beta = 0.1$, $J = +/-1$, $J_seed = 8$,
 $MC_seed = 20$, $Spins_seed = 16$

```
In[272]:= trial16 = Flatten[Import["ising_output16.csv", "CSV"]];
trial16data = Transpose[{numSweeps, trial16}];
trial16plot = ListLinePlot[trial16data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 16: N = 32, M = 100,  $\beta = 0.1$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



Trial 17: $N = 32$, $M = 100$, $\beta = 1$, $J = +/-1$, $J_seed = 8$,
 $MC_seed = 21$, $Spins_seed = 17$

```
In[275]:= trial17 = Flatten[Import["ising_output17.csv", "CSV"]];
trial17data = Transpose[{numSweeps, trial17}];
trial17plot = ListLinePlot[trial17data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 17: N = 32, M = 100,  $\beta = 1$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```



Trial 18: $N = 32$, $M = 100$, $\beta = 10$, $J = +/-1$, $J_seed = 8$,
 $MC_seed = 22$, $Spins_seed = 17$

```
In[278]:= trial18 = Flatten[Import["ising_output18.csv", "CSV"]];
trial18data = Transpose[{numSweeps, trial18}];
trial18plot = ListLinePlot[trial18data, Frame -> True,
  FrameLabel -> {"Number of Sweeps Performed", "Dimensionless Energy"},
  PlotLabel -> "Trial 18: N = 32, M = 100,  $\beta = 10$ ",
  PlotStyle -> Darker[Blue], FrameStyle -> Black, LabelStyle -> Black]
```

