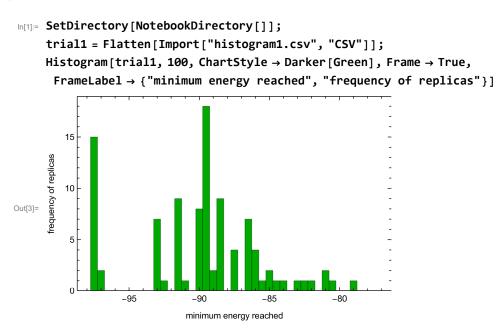
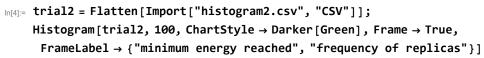
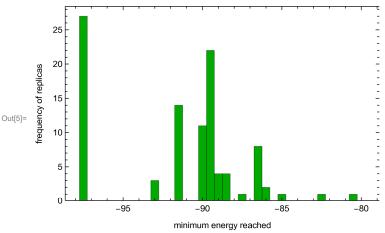
# Brendan Philbin Thermal Annealing Analysis

Trial 1 (no annealing): N=64, M=100, R=100, J=2, S=3, C=4,  $\beta$ =5



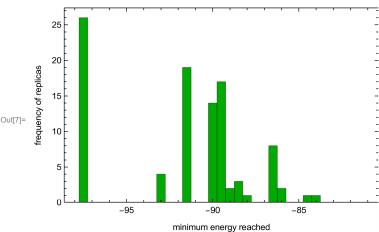
### Trial 2 (no annealing): N=64, M=200, R=100, J=2, S=4, C=5, $\beta=5$





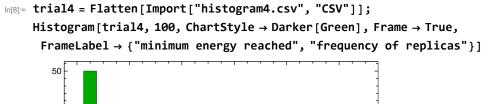
## Trial 3 (no annealing): N=64, M=400, R=100, J=2, S=5, C=6, $\beta=5$

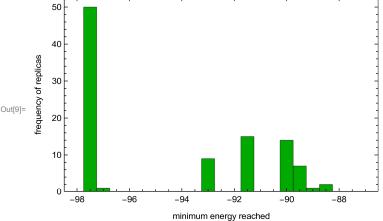
In[6]:= trial3 = Flatten[Import["histogram3.csv", "CSV"]]; Histogram[trial3, 100, ChartStyle → Darker[Green], Frame → True, FrameLabel → {"minimum energy reached", "frequency of replicas"}]



Trial 4 (w/ annealing): N=64, M=100, R=100, J=2, S=3, C=4,

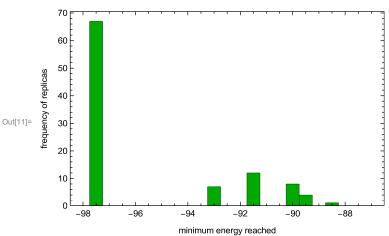
#### $\beta=5$





## Trial 5 (w/ annealing): N=64, M=200, R=100, J=2, S=4, C=5, $\beta=5$

In[10]:= trial5 = Flatten[Import["histogram5.csv", "CSV"]]; Histogram[trial5, 100, ChartStyle → Darker[Green], Frame → True, FrameLabel → {"minimum energy reached", "frequency of replicas"}]



## Trial 6 (w/ annealing): N=64, M=400, R=100, J=2, S=5, C=6, $\beta=5$

In[12]:= trial6 = Flatten[Import["histogram6.csv", "CSV"]]; Histogram[trial6, 100, ChartStyle → Darker[Green], Frame → True, FrameLabel → {"minimum energy reached", "frequency of replicas"}]

