## Average over 2000 simulations 12.5 1.2 10.0 Entropy 1.0 Energy 7.5 0.8 5.0 0.6 2.5 0.4 150 0 50 100 150 50 100 iteration iteration 1.00×10<sup>12</sup> **Temperature** $-5.00 \times 10^{10}$ $-1.00 \times 10^{11}$ $7.50 \times 10^{11}$ $5.00 \times 10^{11}$ $-1.50 \times 10^{11}$ $2.50 \times 10^{11}$ $-2.00 \times 10^{11}$ 0 $-2.50\times10^{11}$ 50 100 150 50 150 100 iteration iteration