Selected Topics of LGT

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Assignment # 1

1   a)

...

2   b)

The implementation of this part can be found in main.py and simulation.py.

3   c)

A plot of S_E can be found in sim_action*.png. A safe value for the burn-in seems to be 5000 MC steps.

4   d)

A histogram of x_k can be found in sim_wave_function*.png. The continuous plot corresponds to the ground state of the Quantum Harmonic Oscillator.