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equation (in other words, a solution for $t \neq 1$). Use this equation to obtain the time evolution $\langle N_1 \rangle_t$ of the average value of N_1 . Compare this analytical form with the results of your simulations. ***
Note that $\langle N_1 \rangle_t = \sum_{N_1} P(N_1; t)$: Using the stochastic equation, it is easy to see that $\langle N_1 \rangle_{t+\Delta t} = \frac{1}{2} \langle N_1 \rangle_t + \Delta t$; which leads to the solution $\langle N_1 \rangle_t = \frac{1}{2} \langle N_1 \rangle_0 + \frac{t}{\Delta t}$

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The density matrix in the canonical ensemble is, The operator upon transformation would become,. The operator upon transformation would become as follows.. We have, Thus, the above equation reduces to, The expectation value along z-axis is,. Substitute for, and for.. Thus, the same result of expectation value along z-axis is obtained as that one in section 5.3.

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Step 1 of 4. First express the multiplicity of the system in terms of volume and energy variables and then. The expression for the energy of the single particle is as follows. Here, h is the Planck's constant, c is the speed of light, and L is the length of each side of the cubical box. Rewrite the equation for.

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