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equation (in other words, a solution for $t \neq 1$). Use this equation to obtain the time evolution $\langle N(t) \rangle$ of the average value of N . Compare this analytical form with the results of your simulations. *** Note that $\langle N(t) \rangle = \sum_{N_1} P(N_1; t)$: Using the stochastic equation, it is easy to see that $\langle N(t) \rangle = \sum_{N_1} P(N_1; t) N_1$; which leads to the solution $\langle N(t) \rangle = C_1 e^{-\lambda t} + N_0$;

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Statistical mechanics : an advanced course with problems and solutions / Ryogo Kubo; in cooperation with Hiroshi Ichimura, Tsunemaru Usui, Natsuki Hashizume. Author: Kubo, Ryōgo, 1920-1995 viaf Hashitsume, Natsuki viaf Ichimura, Hiroshi Usui, Tsunemaru Publisher: Amsterdam : North-Holland, 1965. Description: xii, 425 p. ; 23 cm. Note:

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