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equation (in other words, a solution for ! 1). Use this equation to obtain the time evolution $\langle n_i(t) \rangle$ of the av-erage value of n_i . Compare this analytical form with the results of your simulations. *** Note that $\langle n_i(t) \rangle = \sum_{N_1, N_2} P(N_1, N_2; t) \langle n_i(t) \rangle$: Using the stochastic equation, it is easy to see that $\langle n_i(t) \rangle = \sum_{N_1, N_2} P(N_1, N_2; t) \langle n_i(t) \rangle$; which leads to the solution $\langle n_i(t) \rangle = C_1 2^{N_1} + N_2$;

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