

**Erratum: Fluctuation-dissipation relations for Markov processes**  
**[Phys. Rev. E 72, 011104 (2005)]**

Gregor Diezemann

(Received 16 February 2006; published 24 March 2006)

DOI: [10.1103/PhysRevE.73.039907](https://doi.org/10.1103/PhysRevE.73.039907)

PACS number(s): 05.40.-a, 64.70.Pf, 61.20.Lc, 99.10.Cd

Due to an error in the evaluation of the correlation function and the asymmetry for fully connected trap models the results in Sec. III B, uncorrelated variables, are wrong. The correlation function given in Eq. (33) has to be replaced by  $C(t, t_w) = \sum_k G_{kk}(t-t_w)p_k(t_w) = \Pi(t, t_w) + \delta\Delta C(t, t_w)$ . Here,  $\delta = \epsilon_2 - \epsilon_1$  is the difference between neighboring energies on the grid used in the calculation and one has  $\delta \sim 1/N \rightarrow 0$ . This means that the second term in the expression for  $C(t, t_w)$  vanishes and the correlation function coincides with the one for randomizing variables, given in Eq. (30). Also the expression for the asymmetry, Eq. (36), has an overall prefactor  $\delta$  and thus vanishes. Therefore, for fully connected trap models the results for randomizing variables and uncorrelated variables are identical.

None of the general expressions given in Sec. II for arbitrary stochastic processes obeying a master equation with continuous time are affected by this error.

I wish to thank Peter Sollich for bringing the error in the calculation to my attention.