Erratum: Complex Langevin dynamics and zeroes of the fermion determinant

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L.L. Salcedo (private communication) has pointed out that eq. (3.18) of the paper must be incorrect and hence the discussion surrounding those two equations must be faulty. We agree with this judgement; the right hand side of eq. (3.18) is in fact 0, by the argument leading to eq. (3.10).

In order to understand the failure of complex Langevin in this case, one has to consider not the equilibrium distribution, but quantity eq. (2.10), referring to finite Langevin time. This is where a boundary term arises, due to the fact that the evolved observable will have an essential singularity. The relevant discussion is given earlier in the paper after eq. (2.24).

We note that the error does affect neither the rest of the paper nor the general conclusion.