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Erratum: Maximum-entropy theory of steady-state quantum transport [Phys. Rev. B 68, 125414 (2003)]

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We have identified an error in the derivation of Eq. (14) in the above-named paper.[1] The correct value of the induced potential $\Delta\phi$, in the absence of phase-incoherent scattering, is in fact zero.[2] This renders the subsequent discussion of $\Delta\phi$ and the 4-point conductance G_{4P} incorrect in this case.

The main results and conclusions of the paper, as well as the example which refers to the modified 4-point conductance $\widetilde{G}_{4P}$ in which phase incoherence is accounted for, are correct and unchanged.

Both phase-coherent and phase-incoherent cases are analyzed further in a new paper.[2]

[1] P. Bokes and R. W. Godby, Phys. Rev. B **68**, 125414 (2003).

[2] P. Bokes, H. Mera, and R. W. Godby, Phys. Rev. B **72**, 165425 (2005).

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