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Bokes, P and Godby, R W orcid.org/0000-0002-1012-4176 (2003) Maximum-entropy theory of steady-state quantum transport. *Physical Review B*. 125414. -. ISSN 2469-9969

<https://doi.org/10.1103/PhysRevB.68.125414>

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

P. Bokes and R. W. Godby

(Received 29 September 2005; published 17 November 2005)

DOI: [10.1103/PhysRevB.72.199904](https://doi.org/10.1103/PhysRevB.72.199904)

PACS number(s): 73.23.Ad, 05.30.Ch, 05.60.Gg, 99.10.Cd

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 \tilde{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

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

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