ERRATA

Erratum: Transport properties of solitons
[Phys. Rev. E 48, 4037 (1993)]

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There is an error in our expression (3.27). Its correct form reads

$$F[x,y] = (\det(1 - N\Gamma[x,y]))^{-1}.$$

However, because of the Gaussian approximation in (4.32) this error does not affect the expression for the polaron mobility and only slightly alters the expression for the polaron diffusion which now reads [see (3.49)]

$$D(t) = \hbar^2 \int d\omega \int d\omega' S(\omega,\omega') \left[\frac{n(\omega) + n(\omega')}{2} + n(\omega) + n(\omega')\right](\omega - \omega')^2 \cos(\omega - \omega')t.$$

Observe that the low temperature results are not altered because of the exponential behavior of the occupation numbers. Only the high temperature result is affected.

We are grateful to M. Desposito for having sent us his results of an alternative way to derive $D(t)$ which ultimately forced us to review our previous calculations.

Erratum: α-particle transport-driven current in tokamaks
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An error in notation occurs on page 1656 in Eqs. (10) and (11). In these equations, $k_{\parallel}$ should be replaced by $k_\chi = k_\phi B_\phi/B$, where k_χ is the projection of the toroidal wave number component k_ϕ along the magnetic field vector and B_ϕ and B are the toroidal and total magnetic field, respectively. Similarly, the values given to $k_{\parallel}$ in the figures and in their discussion should be interpreted as values of k_χ. Whereas the results obtained in the present Rapid Communication remain unchanged, the corrected notation is required to make the Monte Carlo operators in Eqs. (8)–(10) satisfy the conservation of parallel momentum in the wave-particle interaction [see, e.g., D. Anderson et al., Phys. Fluids B 3, 3125 (1991)].