ERRATA

Erratum: Cluster formation, standing waves, and stripe patterns in oscillatory active media with local and global coupling [Phys. Rev. E 52, 763 (1995)]

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The exponent 3 in Eq. (6) is not in the right position. The correct equation is

$$\frac{dp_{\mathrm{CO}}}{dt}=\frac{J_{i0}}{V}\left[p_{\mathrm{COE}}-p_{\mathrm{CO}}\left(1+\frac{V_{\mathrm{ML}}}{J_{i0}A}\int_A dz^2\left\{k_1 p_{\mathrm{CO}}\left[1-\left(\frac{c}{c_s}\right)^3\right]-k_2\left(\frac{c}{c_s}\right)\right\}\right)\right]. \tag{6}$$

There is an error in the differential equations (17) for η_0 and η_k. The factor 2 of the last term of the fourth line has to be canceled. The correct equation for the amplitude η_k is

$$\dot{\eta}_k=[1-i\omega-(1+i\varepsilon)k^2]\eta_k-(1+i\beta)[3(|\eta_k|^2)+2|\eta_0|^2]\eta_k+\eta_0^2\eta_k^*. \tag{17}$$

That results in the following equations (19)–(21) for E_0, E_k, Ω, and γ:

$$\begin{gathered}1+i\Omega-\mu e^{i\chi}=(1+i\beta)[E_0^2+2(2+e^{-2i\gamma})E_k^2],\\ 1+i\Omega-(1+i\varepsilon)k^2=(1+i\beta)[3E_k^2+(2+e^{2i\gamma})E_0^2],\end{gathered} \tag{19}$$

$$\begin{gathered}E_k^2=\frac{1-k^2-(1-\mu\cos\chi)(2+\cos2\gamma-\beta\sin2\gamma)}{3-2(2+\cos2\gamma+\beta\sin2\gamma)(2+\cos2\gamma-\beta\sin2\gamma)},\\ E_0^2=\frac{3(1-\mu\cos\chi)-2(1-k^2)(2+\cos2\gamma+\beta\sin2\gamma)}{3-2(2+\cos2\gamma+\beta\sin2\gamma)(2+\cos2\gamma-\beta\sin2\gamma)},\\ \Omega=\beta-(\beta-\varepsilon)k^2+(1+\beta^2)\sin2\gamma\,\frac{3(1-\mu\cos\chi)-2(1-k^2)(2+\cos2\gamma+\beta\sin2\gamma)}{3-2(2+\cos2\gamma+\beta\sin2\gamma)(2+\cos2\gamma-\beta\sin2\gamma)},\end{gathered} \tag{20}$$

$$\begin{gathered}\sum_{i=0}^{4} r_i\tan^i\gamma=0,\\ r_0=-15r_4=15[(\beta-\varepsilon)k^2+\mu(\sin\chi-\beta\cos\chi)],\\ r_1=6\mu(1+\beta^2)\cos\chi+8(1+\beta^2)k^2-14(1+\beta^2),\\ r_2=2\mu(3-4\beta^2)\sin\chi-14\mu\beta\cos\chi+(8\varepsilon\beta^2-6\varepsilon+14\beta)k^2,\\ r_3=2(1+\beta^2)(1-\mu\cos\chi).\end{gathered} \tag{21}$$

At $\varepsilon=8$, $\beta=1.4$, $\chi=1.65$, $\mu=6$, and $k=k_{\max}=0.6710$ we get $E_0=1.1127$, $E_k=0.1987$, $\Omega=7.8250$, and $\gamma=0.9525$. From numerical simulations we obtained $E_0=1.0978$, $E_k=0.3036$, $\Omega=7.9467$. If we use the wave vector $k=0.6749$, which was found numerically, instead of $k_{\max}$, we have $E_0=1.1069$, $E_k=0.2050$, $\Omega=7.8122$, and $\gamma=0.9610$. The coincidence of E_0 and Ω is improved. No essential features of the solution of (17) have been influenced by the mistake.

Erratum: Chaotic behavior of renormalization flow in a complex magnetic field [Phys. Rev. E 52, 4512 (1995)]

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(i) Equation (9) should read

$$M_{N\to\infty}=\frac{\partial\ \ln Z_N}{N\partial h}=\frac{e^{2K}\sinh(h)}{\sqrt{1+e^{4K}\sinh^2(h)}}\ . \tag{9}$$

(ii) The discussion of Lee-Yang zeros is erroneous. Equation (18) and the ensuing paragraph should read

$$Z_N=(\lambda_+)^N+(\lambda_-)^N=0\Leftrightarrow\lambda_+=e^{iq\pi/N}\lambda_-\,, \tag{18}$$

where $-N<q\leqslant N$ is odd. Using the explicit form of the eigenvalues, (3), this leads to

$$\cos\left(\frac{q\pi}{2N}\right)\sqrt{e^{-4K}+\sinh^2(h)}=i\ \sin\left(\frac{q\pi}{2N}\right)\cosh(h). \tag{19}$$

This equation can be rearranged to give

$$\cos(\theta_q)=\sqrt{1-t^2}\cos\left(\frac{q\pi}{2N}\right), \tag{20}$$

where $t=e^{-2K}$ as before and θ_q are the N roots in the rotated complex h plane, $h=i\theta$. Since $0<t<1$ the N values of θ_q are all real and they lie in the range $t<|\sin(\theta_q)|<1$, which is precisely the region above the critical line in Fig. 1. In the thermodynamic limit ($N\to\infty$) the lowest zeros are at $\sin(\theta_q)=t$, which is the critical line. Thus, in the thermodynamic limit, the critical line coincides with the rightmost Lee-Yang zeros in the complex activity plane.

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Erratum: Kinetic theory of multicomponent dense mixtures of slightly inelastic spherical particles [Phys. Rev. E 52, 4877 (1995)]

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There was a typographical error in the above-mentioned paper. Equation (3) on page 4879 should read as follows:

$$\begin{aligned}\frac{df^{n^{(1)}}(x_j^n,C_j^n,t)}{dt}=&\left[-C_j^n\frac{\partial}{\partial x_j}+C_j^n\frac{\partial u_j}{\partial x_k}\frac{\partial}{\partial C_k}+\left(\frac{du_j}{dt}\frac{\partial}{\partial C_j}-F_j^n\frac{\partial}{\partial C_j}\right)\right]f^{n^{(1)}}(x_j^n,C_j^n,t)\\&+\sum_{p=1}^{s}\int\int[g^{np}(x_j,x_j+\sigma^{np}k_j|\{n_s\})f^{n^{(1)}}(x_j,c_j^{n'},t)f^{p^{(1)}}(x_j+\sigma^{np}k_j,c_j^{p'},t)\\&-g^{np}(x_j,x_j-\sigma^{np}k_j|\{n_s\})f^{n^{(1)}}(x_j,c_j^n,t)f^{p^{(1)}}(x_j-\sigma^{np}k_j,c_j^p,t)]c_j^{np}k_j\sigma^{np^2}H(c_j^{np}k_j)dk_jdc_j^p\,.\end{aligned} \tag{3}$$

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