

## Erratum

# Van Kampen's expansion approach in an opinion formation model

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In Eur. Phys. J. B **51**, 435 (2006), equation (2) that reads

$$\begin{aligned} \frac{\partial}{\partial t} P(N_A, N_B, t) = & \alpha_1(N_A + 1)P(N_A + 1, N_B, t) + \alpha_3(N_B + 1)P(N_A, N_B + 1, t) \\ & + \alpha_2(N - N_A - N_B + 1)P(N_A - 1, N_B, t) \\ & + \alpha_4(N - N_A - N_B + 1)P(N_A, N_B - 1, t) \\ & + \frac{\beta_1}{N}(N_A - 1)(N - N_A - N_B + 1)P(N_A - 1, N_B, t) \\ & + \frac{\beta_2}{N}(N_B - 1)(N - N_A - N_B + 1)P(N_A, N_B - 1, t) \\ & - \left[ \alpha_1 N_A + \alpha_3 N_B + \alpha_2(N - N_A - N_B) + \alpha_4(N - N_A - N_B + 1) \right] P(N_A, N_B, t), \end{aligned}$$

was erroneously typed. It should be corrected to

$$\begin{aligned} \frac{\partial}{\partial t} P(N_A, N_B, t) = & \alpha_1(N_A + 1)P(N_A + 1, N_B, t) + \alpha_3(N_B + 1)P(N_A, N_B + 1, t) \\ & + \alpha_2(N - N_A - N_B + 1)P(N_A - 1, N_B, t) \\ & + \alpha_4(N - N_A - N_B + 1)P(N_A, N_B - 1, t) \\ & + \frac{\beta_1}{N}(N_A - 1)(N - N_A - N_B + 1)P(N_A - 1, N_B, t) \\ & + \frac{\beta_2}{N}(N_B - 1)(N - N_A - N_B + 1)P(N_A, N_B - 1, t) \\ & - \left[ \alpha_1 N_A + \alpha_3 N_B + (\alpha_2 + \alpha_4)(N - N_A - N_B) \right. \\ & \left. + \left( \frac{\beta_1 N_A + \beta_2 N_B}{N} \right) (N - N_A - N_B) \right] P(N_A, N_B, t). \end{aligned}$$

The rest of the equations for orders  $\Omega^{1/2}$  and  $\Omega^0$ , as well as the ones corresponding to the Fokker-Planck equation and its moments, are correct.

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