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**ERRATA**


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**Erratum: Phase transitions in solutions of variably ionizable particles**  
**[Phys. Rev. E 48, 4536 (1993)]**

Nikolay Brilliantov

PACS number(s): 64.70.-p, 64.60.-i, 61.25.Hq, 82.30.Nr, 99.10.+g

There is a misprint in Eq. (27). The term associated with the RPA part of the free energy of the solution,  $\beta F(\alpha)/N$ , should be  $-(\chi_D^3/12\pi n)(\alpha^2+2\alpha)^{3/2}$  instead of  $+(\chi_D^{3/2}/12\pi n)(\alpha^2+2\alpha)^{3/2}$ . The results reported in the paper [including Eqs. (25) and (26)] have been obtained from the correct expression.

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**Erratum: Critical dimensionalities of phase transitions on fractals**  
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Yu Shi and Changde Gong

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For definiteness and without loss of generality, in Sec. V, the boundary lengths of the periodic Koch lattice are supposed to be equal along the  $x$  direction and the  $z$  direction. Hence, when no constraints are imposed upon boundary spins, there are at most  $b^{D+1}/2$  spins lying inside a domain wall of length  $b$ . The results before Eq. (21) that there are at most  $D^D[b/(D+1)]^{D+1}$  spins was obtained without considering the boundary lengths. Consequently, Eqs. (22) and (23) should at best be changed to

$$N_- \leq \sum_b [A] \frac{b^{D+1} m(b)}{2} \sum_{i=1} X(b, i) \quad (22)$$

and

$$\begin{aligned} \sum_A N_- \{s\} P \{s\} + \sum_B N_+ \{s\} P \{s\} &\leq \sum_b \frac{b^{D+1} m(b)}{2} \sum_{i=1} \langle X(b, i) \rangle \\ &< \frac{2}{3} \sum_b b^2 3^b e^{-2\beta \epsilon b} \\ &= \frac{32}{3} \frac{\kappa^2}{(1-\kappa)^3} \left[ 1 - \frac{3\kappa}{4} + \kappa^2 4 \right]. \end{aligned} \quad (23)$$

In addition,  $M_+$  in Eq. (7) should be  $N_+$ .