**Publisher's Note: Fluctuating lattice Boltzmann method for the diffusion equation
[Phys. Rev. E **94**, 033302 (2016)]**

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(Received 14 June 2017; published 22 June 2017)

DOI: [10.1103/PhysRevE.95.069903](https://doi.org/10.1103/PhysRevE.95.069903)

This paper was published online on 16 September 2016 with errors in Eqs. (58), (59), (62), and (63).
Equation (58) should read as

$$\partial_t \rho + \partial_\alpha \eta_\alpha + \partial_t \left(\tau^\rho - \frac{1}{2} \right) (\partial_t \rho + \partial_\beta \eta_\beta) - \partial_\alpha \left(\tau^j - \frac{1}{2} \right) [\partial_t \eta_\alpha + \partial_\beta (\rho \theta \delta_{\alpha\beta} + \chi_{\alpha\beta})] = 0.$$

Equation (59) should read as

$$\partial_t \rho + \partial_\alpha \eta_\alpha - \partial_\alpha \frac{D}{\theta} [\partial_\alpha \rho \theta + (\partial_t \eta_\alpha + \partial_\beta \chi_{\alpha\beta})] = 0$$

Equation (62) should read as

$$\partial_t \rho + \partial_\alpha \eta_\alpha - \partial_\alpha \frac{D}{\theta} \partial_\alpha \rho \theta = 0$$

Equation (63) should read as

$$\partial_t \rho + \partial_\alpha \eta_\alpha - \partial_\alpha D \partial_\alpha \rho = 0$$

The equations have been corrected as of 31 May 2017. The equations are incorrect in the printed version of the journal.