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Correction: Tunable hydrodynamics: a field-frequency phase diagram of a non-equilibrium order-to-disorder transition

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Correction for 'Tunable hydrodynamics: a field-frequency phase diagram of a non-equilibrium order-to-disorder transition' by Somayeh Khajepour Tadavani *et al.*, *Soft Matter*, 2017, **13**, 7412–7424.

1. The denominator of eqn (3) for the shape-discriminating function, ϕ , had a factor of 10, which should in fact be a factor of 5. The corrected eqn (3) should read:

$$\phi = \frac{9}{16} \left(1 - \frac{H^{-1}(11N + 14) + H^{-2}(15(N + 1) + S(19N + 16)) + 15\tau^2\omega^2(1 + N)(1 + 2S)}{5(1 + N)((2H^{-1} + 1)^2 + \tau^2\omega^2(S + 2)^2)} \right).$$

The correct form for the theoretical shape-discriminating function, ϕ , was indeed used in Fig. 3(d).

2. The following paragraph had an error in the estimate for $D\tau$.

“There is a common plateau, for $E > 3.5 \text{ V } \mu\text{m}^{-1}$, at around $15 \text{ } \mu\text{m}^2 \text{ s}^{-1}$. Given the orientational correlations have a lifetime of τ between 0.1 and 10 s, this implies that the contribution of drop deformation to the centroid MSD of order $D\tau \sim 7\text{--}70 \text{ } \mu\text{m}^2$. As can be seen in Fig. 8(a), the low-frequency results are ones where the MSD plateaus at a value larger than this, *i.e.*, true translational dynamics dominates, while at higher frequencies, orientational and translational dynamics are not clearly separable in the mean-square displacements.”

The paragraph should read:

“There is a common plateau, for $E > 3.5 \text{ V } \mu\text{m}^{-1}$, at around $15 \text{ } \mu\text{m}^2 \text{ s}^{-1}$. Given that the orientational correlations have a lifetime τ of between 0.1 and 10 s, this implies that the contribution of drop deformation to the centroid MSD is of order $D\tau \sim 1.5\text{--}150 \text{ } \mu\text{m}^2$. As can be seen in Fig. 8(b), the low-frequency results are ones where the MSD plateaus at a value larger than this, *i.e.*, true translational dynamics dominates, while at higher frequencies, orientational and translational dynamics are not clearly separable in the mean-square displacements.”

These changes do not affect the rest of the manuscript. The corrected paragraph is located on page 7420, bottom left column and top right column.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.