## Erratum: Stability and structure of a supercooled liquid mixture in two dimensions [Phys. Rev. E 59, 5721 (1999)]

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We have recently uncovered an error in Perera and Harrowell [Phys. Rev. E **59**, 5721 (1999)] involving the calculation of the Fourier transform of density-density correlation functions. While this error has affected a number of figures, it does not change any of the conclusions reached in the paper. The corrected Figs. 1, 2, 8, and 9 are provided below. At the temperatures  $\{1.0, 0.8, 0.6, 0.55, 0.5, 0.46, 0.4\}$  the values of  $\tau_{e,1}$  (in units of  $\tau$ ) are 0.601, 0.899, 1.89, 2.70, 4.86, 22.6, 183, and for  $\tau_{e,2}$  (in units of  $\tau$ ) are 1.01, 1.67, 4.23, 6.95, 24.8, 91.0, 703, respectively.



FIG. 1. Incoherent scattering functions  $F_{s,1}(k_1,t)$  and  $F_{s,2}(k_2,t)$  for the small and large particles, respectively. The wave vectors  $k_1=6.10\sigma_1^{-1}$  and  $k_2=5.36\sigma_1^{-1}$  are the first peak positions in the respective partial structure factors. From left to right, the relaxation curves correspond to the following temperatures: T=1, 0.8, 0.6, 0.55, 0.5, 0.46, 0.4. Observe that a slower relaxation process appears at T=0.5.



FIG. 8. Partial structure factor  $S_{11}(k)$  for the binary mixture. For clarity, each curve below T=5 has been displaced vertically by 0.2 units above the higher temperature curve directly proceeding it.



FIG. 2. A log-linear plot of the structural relaxation times  $\tau_{e,1}$  and  $\tau_{e,2}$ , as defined in the text, against 1/T for the small and large particles, respectively. Note that there is still a positive deviation from Arrhenius behavior for T < 0.55. The solid lines are linear regressions through the data points in the range  $T \in [0.55, 1]$ .



FIG. 9. Partial structure factor  $S_{22}(k)$  for the binary mixture. For clarity, each curve below T=5 has been displaced vertically by 0.2 units above the higher temperature curve directly proceeding it.