Electronic Supplementary Information for *Soft Matter* manuscript: Geometrical criterion for glass transition in soft-sphere fluids

Yuxing Zhou and Scott T. Milner*
Department of Chemical Engineering, The Pennsylvania State University, University Park PA 16802

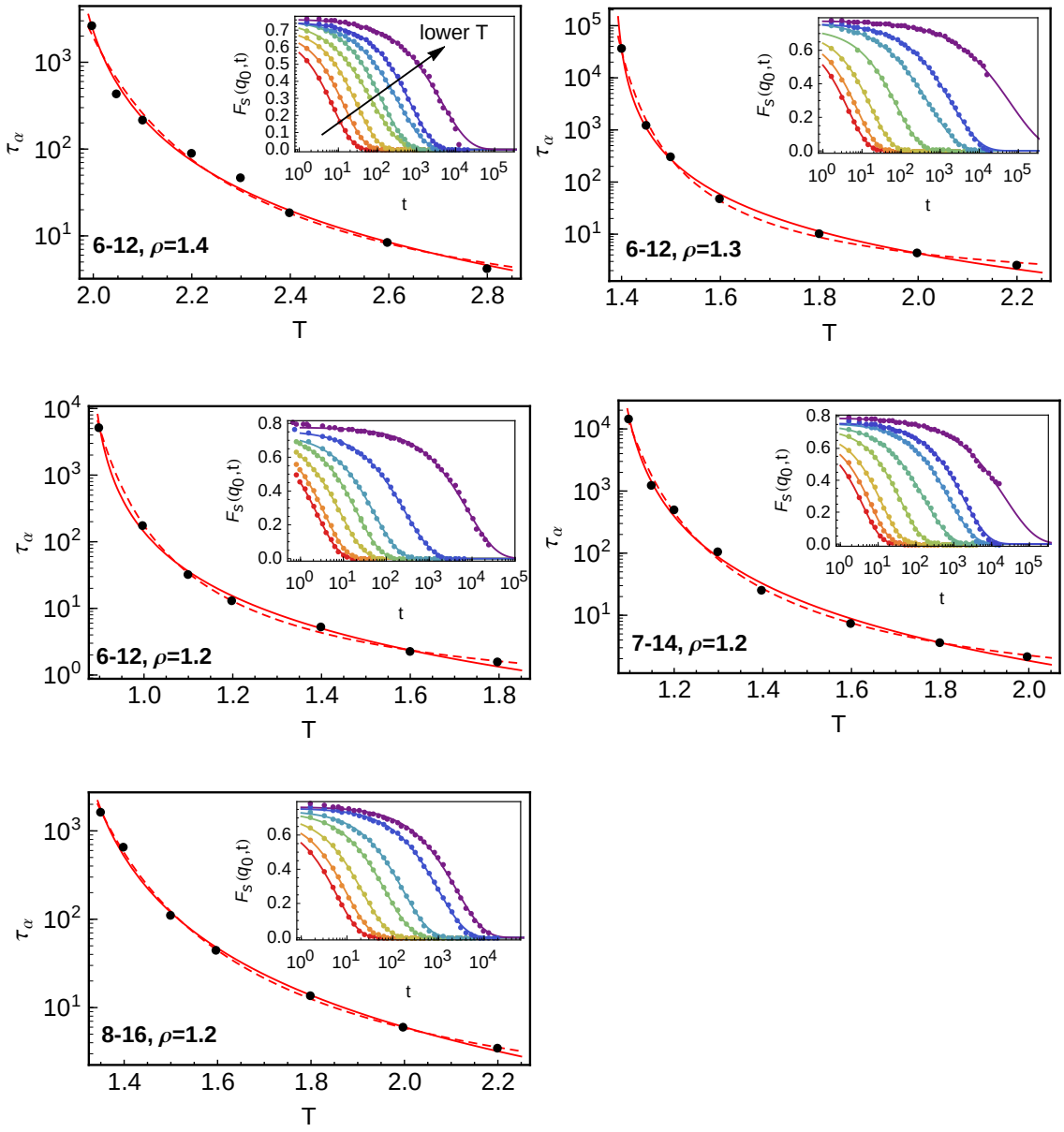

FIG. S1: MCT power law fit (solid line) and VFT fit (dashed line) of temperature dependence of structural relaxation time for differet systems. Inset: self-intermediate scattering funtion $F_s(q_0, t)$ at different temperatures, where $q_0 = 7.2$, 7.4, 7.6 for $\rho = 1.2$, 1.3 ,1.4, respectively.

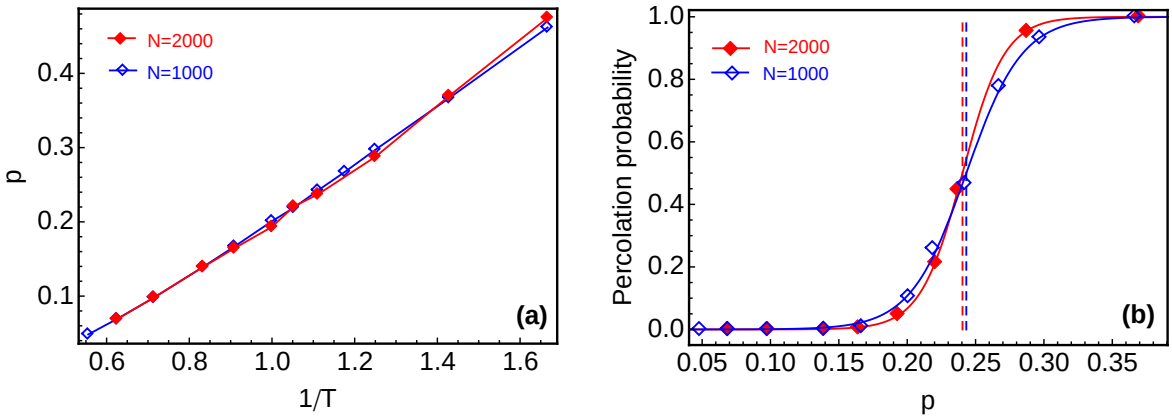

FIG. S2: Finite size effects on (a) fraction of T1-inactive particles p as a function of inverse temperature $1/T$ and (b) percolation probability of T1-inactive clusters P. Solid curves in (b) are tanh fits $P = 1/2(1 + \tanh[(p_c - p)/d])$ to the data, while vertical dashed lines indicate the effective percolation thresholds p_c.