Effect of bond length fluctuations on crystal nucleation of hard bead chains
Supplementary Material

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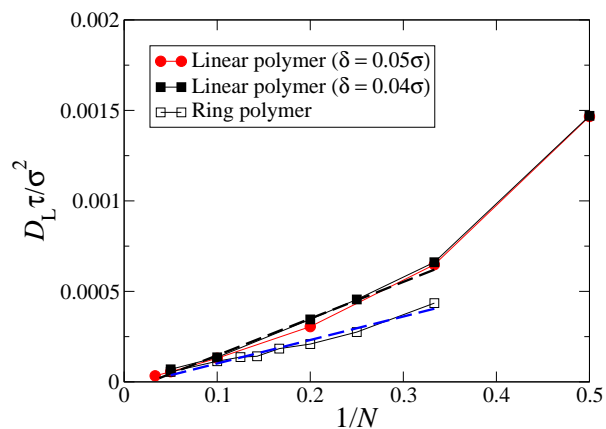## I.   DIFFUSION COEFFICIENT OF THE HARD-SPHERE POLYMERS

FIG. 1. Long-time diffusion coefficients $D_L \tau/\sigma^2$ of linear hard-sphere polymers with bond length $\delta = 0.04\sigma$ (solid squares) and $\delta = 0.05\sigma$ (solid circles) and of ring-like hard-sphere polymers with bond length $\delta = 0.05\sigma$ (open squares) as a function of $1/N$ where N is the chain length. Here $\tau = \sigma\sqrt{m/k_B T}$ with m and σ the mass and diameter of the spheres, respectively.