

Chemical and Mechanical Impact of Silica Nanoparticles on the Phase Transition Behavior of Phospholipid Membranes in Theory and Experiment

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Supplementary Material

Figure 1 – DLS and TEM Measurements concerning agglomeration of coated NP

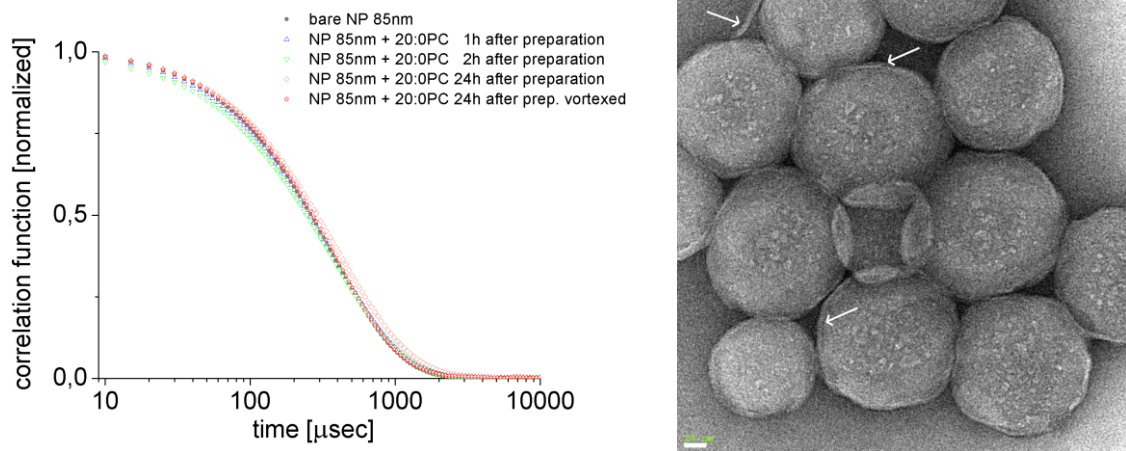


Figure 2 - Free parameter of the fit in figure 7: $z := \kappa_G/\kappa$ in dependence on the lipid chain length.

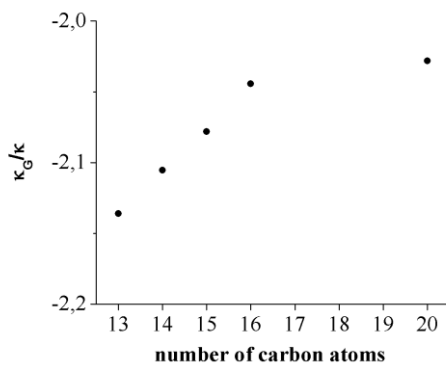
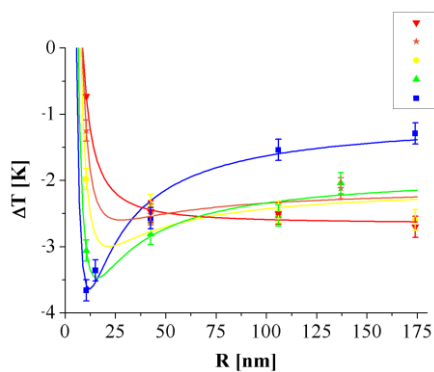
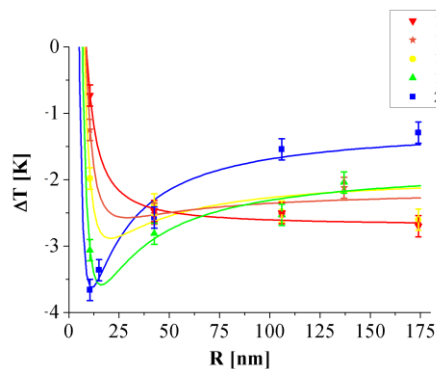


Figure 3 – Fit comparable to figure 7 with ΔG_S and c_0 as additional free parameters: a) Fit with ΔG_S and c_0 as additional free parameters b) Fit with ΔG_S fixed and c_0 as free parameters c) overview of fitting parameters ΔG_S and c_0 as function of chain length h (open symbols for free ΔG_S (see inset)/ closed symbols for $\Delta G_S = 150\text{J/mol}$).

a)



b)



c)

