Effectiveness of Centrifugation [pln46]
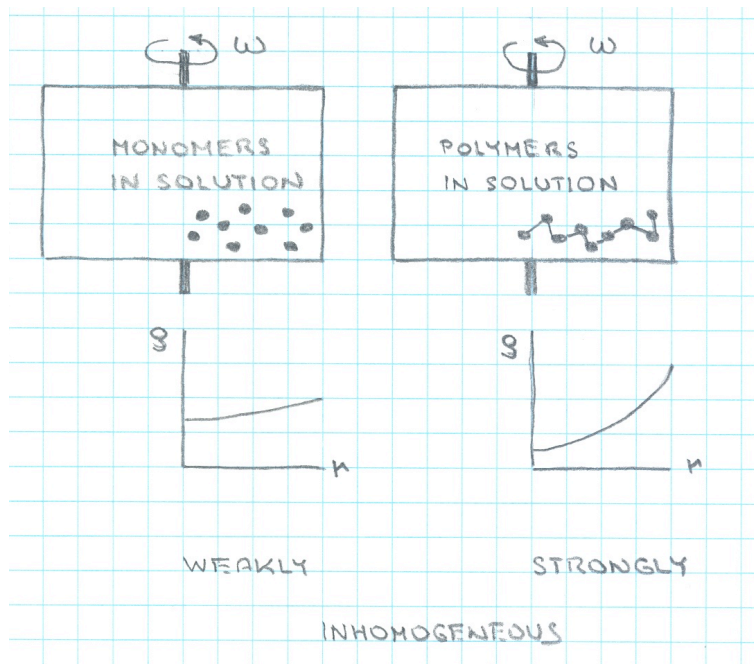
Consider centrifuge vessels containing

(i) *monomers* of mass $m = m_0$ in solution,

(ii) *polymers* of mass $m = Nm_0$ in solution.

Centrifugal potential: $U(r) = -\dfrac{1}{2}m\omega^2 r^2.$

Density profile: $\rho(r) \propto \exp\left(-\dfrac{U(r)}{k_\mathrm{B}T}\right).$