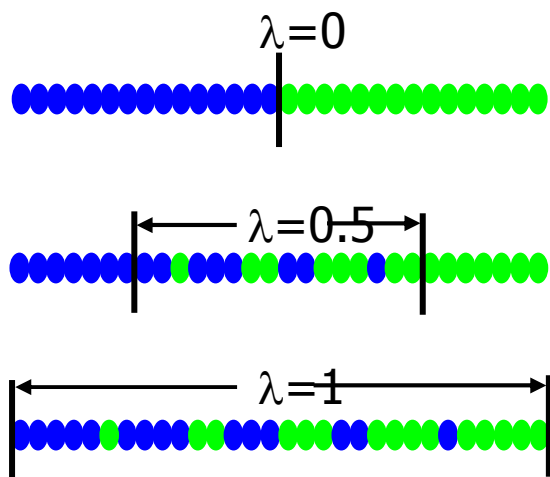
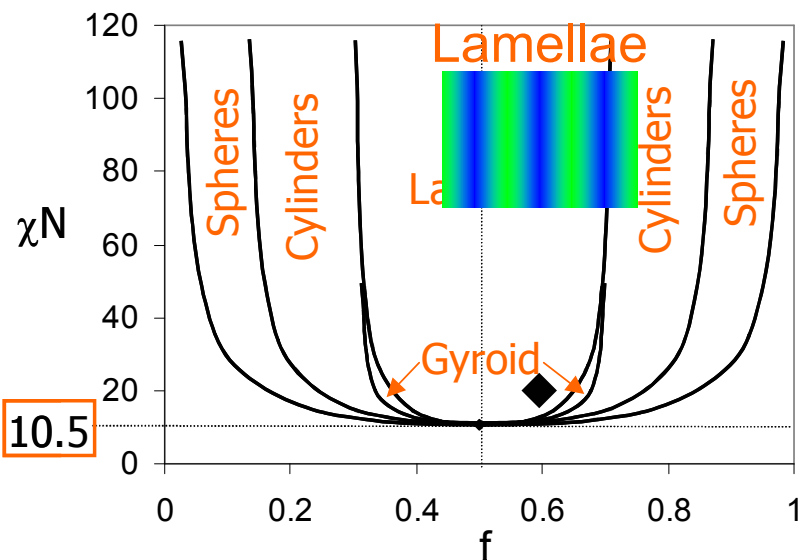
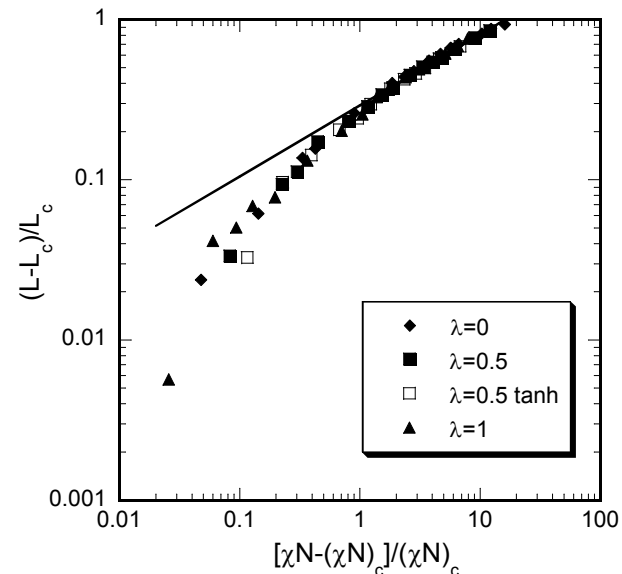


# Gradient Copolymers Melts



How does the gradient change phase separation?

Block copolymer phase diagram



$(\chi N)_c$  increases as  $\lambda$  increases. The normalized domain spacing  $L$  minus the unperturbed chain size  $L_c$  versus the normalized distance of  $N\chi$  from the critical point at  $(\chi N)_c$  seems to be independent of the copolymer gradient  $\lambda$ .

“Phase Segregation in Gradient Copolymer Melts” M.D Lefebvre, M. Olvera de la Cruz, K. A. Shull *Macromolecules* 37, 1118-23 (2004)