

Abstract Submitted
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Static Correlation Functions of Polymer Concentration Fluctuations in the Presence of an Interface CATHERINE YEH, PHILIP PINCUS, University of California, Santa Barbara — We study static correlation functions of polymer solutions using the Cahn-de Gennes square gradient theory of interfacial energies. Fluctuations are considered for good, theta, and poor solvents at repulsive and adsorbing surfaces as well as at the interface of phase separated solutions. We predict the existence of bound state fluctuations associated with an interface under certain conditions.

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