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Long Range Correlations in Polymeric Fluids

P. A. Pincus^a

^a Exxon Research and Engineering Company, P.O. Box 45 Linden, NJ, 07036

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LONG RANGE CORRELATIONS IN POLYMERIC FLUIDS

P.A. PINCUS
Exxon Research and Engineering Company
P.O. Box 45
Linden, NJ 07036

Abstract. We shall review structural aspects of intermediate length scale correlations in fluids. In particular, we shall discuss the application of low angle x-ray and neutron scattering to spatial correlations in the $10^0\text{\AA} - 10^4\text{\AA}$ range, intermediate between the atomic and macroscopic domains. Polymer solutions, blends and colloidal suspensions will serve as examples.