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Long Range Correlations in Polymeric Fluids

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LONG RANGE CORRELATIONS IN POLYMERIC FLUIDS

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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 10Å - 10^4Å range, intermediate between the atomic and macroscopic domains. Polymer solutions, blends and colloidal suspensions will serve as examples.