

Abstract Submitted
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Growth of spatial correlations during the aging of a simple structural glass AZITA PARSAEIAN, HORACIO CASTILLO, Department of Physics and Astronomy, Ohio University — We investigate dynamical heterogeneities in a binary Lennard-Jones system below the glass transition temperature, by computing spatial correlations of fluctuations in the aging regime. A theoretical framework based on the existence of a soft mode in the nonequilibrium dynamics predicts the presence of a dynamical correlation length which grows with time. In our simulations we find that correlations grow with growing waiting time, as expected from this picture.

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