

Abstract Submitted
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Fluctuations in the relaxation of a strong glass¹ AZITA PARSAEIAN, HORACIO E. CASTILLO, Department of Physics and Astronomy, Ohio University, KATHARINA VOLLMAYR-LEE, Department of Physics and Astronomy, Bucknell University — We present results of molecular dynamics simulations of amorphous silica, carried out by using the BKS inter-atomic potential. We quantify the evolution of fluctuations by studying the probability distributions of local observables such as individual particle displacements Δx and local coarse grained intermediate scattering functions C_r . We test for universality by comparing the probability distributions with those in small molecule glasses and in polymer glasses.

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