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Isomorph invariance of hydrodynamics in Lennard-Jones system

For a few years it has been known, that for liquids which exhibit a strong correlation between the potential energy and the virial in some subsets of their phase diagram (called R-simple liquids), contains isomorph lines, along which properties such as structure are invariant. In this work, the hydrodynamics near the hydrodynamic limit is explored for a simple Lennard-Jones system. In particular the isomorph invariance of the hydrodynamic properties are investigated.

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