

Accepted Manuscript

Characterization of the structural collapse undergone by an unstable system of ultrasoft particles

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PII: S0378-4371(16)30114-5

DOI: <http://dx.doi.org/10.1016/j.physa.2016.03.116>

Reference: PHYSA 17080

To appear in: *Physica A*

Received date: 23 February 2016

Revised date: 30 March 2016

Please cite this article as: S. Prestipino, G. Malescio, Characterization of the structural collapse undergone by an unstable system of ultrasoft particles, *Physica A* (2016), <http://dx.doi.org/10.1016/j.physa.2016.03.116>

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Highlights for the paper:

"Characterization of the structural collapse undergone by an unstable system of ultrasoft particles", by S. Prestipino and G. Malescio

- We look at the statistical behavior of a Ruelle-unstable model fluid.
- We find two regimes separated by a curve \mathcal{C} in the temperature-density plane.
- In the weakly-unstable regime the system behaves as a metastable extensive fluid.
- In the strongly-unstable regime the fluid collapses very quickly to a cluster.
- The separatrix \mathcal{C} is the remnant of the liquid-liquid spinodal of a stable fluid.

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