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

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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 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 C is the remnant of the liquid-liquid spinodal of a stable fluid.