

Review of: "Dynamic structure factors and equation of state of fluid iron under Earth's core condition"

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Potential competing interests: No potential competing interests to declare.

The paper "Dynamic structure factors and equation of state of fluid iron under Earth's core condition" investigates the properties of fluid iron in Earth's outer core, utilizing ab initio molecular dynamics simulations to calculate the structure and equations of state for iron. The study reveals the thermoelastic characteristics, including density, sound velocity, and bulk modulus, of iron in the Earth's outer core.

This is an interesting study with some reliable results. In my opinion, it could be considered for publication in current version.