

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 entitled "Dynamic Structure Factors and Equation of State of Fluid Iron under Earth's Core Conditions" presents an investigation of the dynamic structure factors and equation of state of fluid iron under Earth's core conditions. The static structure factors, ion-ion dynamic structure factors, and EOS of Fe under the Earth's core conditions were calculated using ab-initio molecular dynamics calculations within the VASP code. Generally, the language is good, and with some grammar revision, the results in this paper are well-presented.

In this paper, the authors describe many findings, but they did not compare their results with previous findings. In my opinion, they should compare them with some results as a test of the method. This is what will give these calculations greater credibility.