

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 author(s) has studied. The contents of the research are novel and have the potential to be published after some minor comments.

1. What are the basic gaps that are filled in this research study?
2. How does this study compare to the previously published work? Which issues are addressed in this study that are not in the previous work?
3. How is this study helpful to the economy of the country?
4. What ranges of all parameters should be given? In the caption, mention all of the involved parametric values for which graphs are plotted; it will help the reader compare the parametric effects for the considered values of the parameters.
5. The conclusion should be precise.
6. What specific improvements should the authors consider regarding the methodology? What further controls should be considered?
7. At the end, the novelty of the work should be highlighted clearly.