

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

Shams Torabnia<sup>1</sup>

<sup>1</sup> Arizona State University

**Potential competing interests:** No potential competing interests to declare.

The paper is well-written and well-referenced. Some minor changes may be useful:

1- The abstract should explain the novelty better; it is not clear what the novelty is in the abstract.

2- All figures' notations have font and size inconsistency. They should be similar and legible.

3- The explanation for equation 5 needs to be clearer:

"where  $V$  is the cell volume,  $N$  is the number of atoms,  $r_i$  and  $r_j$  are the atomic coordinates of atoms  $i$  and  $j$ , and  $\langle \dots \rangle$  means the time or ensemble average."

What is  $\langle \dots \rangle$  ?