Review of: "Non-dimensionalization of the Compressible Navier-Stokes Equation by Pressure Wavelength and Period revealing its Singularity"

Mohammad Amin Esmaili Sikarudi

1- Compressible Navier Stokes equation is not different from incompressible one unless the concept of second coefficient of viscosity appears in compressible Naiver Stocks equation, of coarse in compressible flow, density changes and this is manifested more in continuity equation. Continuity, Navier stokes and energy equations are solved together to simulate compressible flows. Please elaborate on what you mean by "The compressible Navier-Stokes equation includes the pressure wave, implicitly." as in the First line of the conclusion section.

2- In the first Paragraph of introduction, how is this article related to singularities in finite time ? please elaborate on it throughout the article and specifically in the conclusion section.

3- under equation 1, please elaborate on what k and w are in (kx-wt)

4- nine lines below figure 1, this sentence is vague " However, the wave phase as a function itself is invariant for observer S_A – he will feel the same wave crest and trough "passing through" him, regardless of whether the wave source moves or not (particle B or C)."

You may mean the non dimensional phase function is invariant if so please clarify this throughout the manuscript and also what you mean here by feeling the same crest and trough.

5- the title of section 2, you may mean the "dimensionless phase function is invariant" please clarify and correct it.

6- some sentences just before section 3.1 "it be recognized that the " please check the grammar and correct the sentence.

7- the left hand side of equation 26, why is "c" both in the nominator and denominator please clarify or correct.

8- in equation 32, if you mean the volume work done on a closed system it should be (pdv) not d(pv). Please clarify or correct it.