

Peer Review

Review of: "Dynamic Equations of the Discrete Particle and Incompressible Continuous Medium (Field) for Generalized Coordinates System"

Harish Parthasarathy¹

1. Netaji Subhas Inst of Technology, India

I have attached my review as a PDF file. My recommendations are that the author may try to add something new to this, for example, explore the stochastic dynamics of a fluid in a random metric or derive the fluid dynamical equations from a quantum mechanical Hamiltonian.

Once we derive fluid dynamics from Heisenberg's matrix mechanics using an appropriate Hamiltonian, that would lead to the quantization of gravity by explaining how the metric tensor field of gravity undergoes quantum fluctuations in the presence of a quantized matter field using momentum or velocity field operators.

Randomness in the metric is natural to assume owing to fluctuations in the matter and radiation fields. Thus, the stochastic dynamics of the fluid field would be implied by the randomness in the ambient matter dust and electromagnetic radiation.

Deriving fluid mechanics from a quantum mechanical Hamiltonian is presented in the attached PDF document.

Attachments: available at <https://doi.org/10.32388/M5DWB0>

Declarations

Potential competing interests: No potential competing interests to declare.