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Thermal properties of an electron gas with non-standard dispersion relation: Left-handed and right-handed systems

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For review:

Highlights

- We investigated an inductive left-handed system and its corresponding right-handed system.
- System was treated by the Fermi-Dirac statistic (grand canonical ensemble).
- Heat capacity, group velocity and temperature behaviors were investigated.
- Thermal conductivity of an electron gas in a left-handed system was studied.

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