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A large eddy lattice Boltzmann simulation of magnetohydrodynamic turbulence

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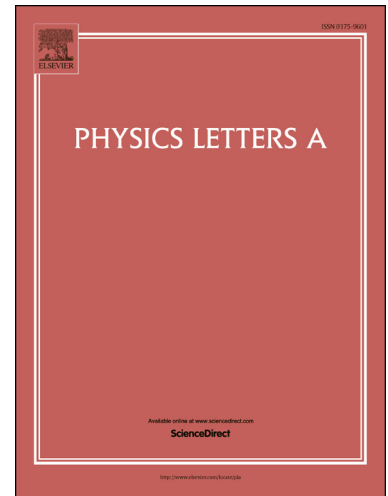
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Highlights

- A first principles LES closure is developed from a lattice Boltzmann representation.
- Closure achieved by enforcing eddy transport effects at the transport scales.
- Additional terms are found in LB-LES-MHD not expected from heuristic models.

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