Nonlinear Processes
in Geophysics

Discussions

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Interactive comment on "Stratified Kelvin-Helmholtz turbulence of compressible shear flows" *by* Romit Maulik and Omer San

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This artcile study the scaling laws and structure functions of stratified shear flows by performing high-resolution numerical simulations of inviscid compressible turbulence induced by Kelvin-Helmholtz instability. The paper presents scaling laws for some cases, all power exponent of k (wave numver) is within the range of [-2,-5/3]., which is right and have been confirmed before my Bohua Sun [Bohua Sun, Scaling laws of compressible turbulence, Appl. Math. Mech. -Engl. Ed., 2017,38(6): 765–778 (the only HOT paper in the issue)]. Generally speaking, the qulitity of this work is nice and worth to be published.

For your information, encluded please find the copy of my two papers in the field

compressible turbulence.

Please also note the supplement to this comment:
https://www.nonlin-processes-geophys-discuss.net/npg-2017-67/npg-2017-67-SC1-supplement.pdf

Interactive comment on Nonlin. Processes Geophys. Discuss., https://doi.org/10.5194/npg-2017-67, 2018.