Batchelor, Saffman, and Kazantsev spectra in galactic small-scale dynamos

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ABSTRACT

Key words: dynamo – MHD – polarization – turbulence – galaxies: magnetic fields

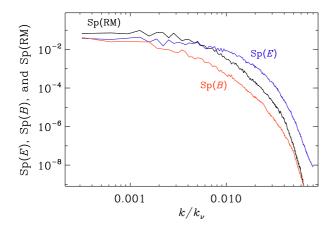


Figure 1. Same as Fig. ??, but for Run T0 during the kinematic stage.

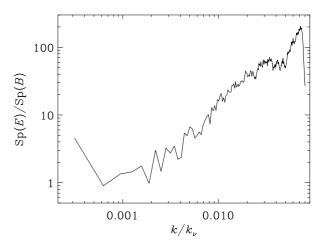


Figure 2. Ratio

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DATA AVAILABILITY

The source code used for the simulations of this study, the PENCIL CODE (Pencil Code Collaboration et al. 2021), is freely available on https://github.com/pencil-code/. The DOI of the code is https://doi.org/10.5281/zenodo.2315093. The simulation setups and the corresponding secondary data, as well as supplemental material with additional plots for the PDFs of Run B and diagnostic images and spectra for Runs B and D in the saturated state are available on https://doi.org/10.5281/zenodo.7281479; see also https://www.nordita.org/~brandenb/projects/Kazantsev-Subinertial for easier access to the same material as on the Zenodo site.

REFERENCES

Pencil Code Collaboration et al., 2021, JOSS, 6, 2807

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