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- We developed a mean field closure for the Hall MHD dynamo. We find that the Hall effect can enhance dynamo activity. This result is relevant to astrophysical systems such as accretion disks, neutron stars or molecular clouds, for which Hall is non-negligible.
- Our 3D simulations also show dynamo enhancement caused by Hall. We find that the enhancement takes place when the Hall scale remains smaller than the forcing scale.
- Incidentally, our simulations also show that both MHD and Hall-MHD stationary turbulent regimes display a Kolmogorov energy spectrum.