

Progress towards the inertialess inviscid dynamo 1

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I introduce the background and equations governing Taylor's idea of neglecting inertia and viscosity in the Navier Stokes equation. This idea stems from the smallness of the Rossby and Ekman numbers. In the induction equation the diffusive term provides a source of dissipation, and in this approach all dissipation is Ohmic. I will introduce the approach we have developed in order that we remain on the Taylor manifold, in which the magnetic field is in a Taylor State.
