

Abstract Submitted
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Reverse Dynamo-Flow Generation SWADESH MAHAJAN — The “reverse dynamo” mechanism, the amplification/generation of the fast plasma flows by microscale (turbulent) magnetic fields via magneto-fluid coupling is recognized and explored. It is shown that macroscopic magnetic fields and flows are generated simultaneously and proportionately from microscopic fields and flows. The stronger the microscale driver is, the stronger the macroscopic products will be. A detailed calculation based on the double Beltrami driver fields is carried out to illustrate the general features of the system.

Swadesh Mahajan
University of Texas Austin

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