

1145-35-485

Kazuo Yamazaki* (kyamazak@ur.rochester.edu), 1017 Hylan Hall, Department of Mathematics, University of Rochester, Rochester, NY 14627. *Magnetohydrodynamics related systems forced by noise.*

The magnetohydrodynamics system consists of the Navier-Stokes equations forced by Lorentz force, coupled with the Maxwell's equations from electromagnetism. In this talk I will discuss some recent results on this system forced by noise, white in time or white in both space and time. The discussion may also include other equations such as the Navier-Stokes equations, Boussinesq system, Hall-magnetohydrodynamics system, Kardar-Parisi-Zhang equation. (Received September 07, 2018)