

**Meeting:** 1005, Newark, Delaware, SS 4A, Special Session on Asymptotic Behavior of Evolution Equations

1005-35-5            **Shuhong He** and **Ping Wang\*** (pxw10@psu.edu), Department of Mathematics, 200 University Drive, Schuylkill Haven, PA 17972. *Long time behavior of flow in magnetic field within the Earth.*

In this paper we study the equations governing flows in magnetic field within the earth. By establishing a priori estimates for the solutions of the differential system and applying Sell's idea, we show that the weak solutions of the equations on bounded, smooth three-dimensional domain have a global attractor. (Received August 05, 2004)