1147-35-224   **Mimi Dai*** (`mdai@uic.edu`). *Non-uniqueness of Leray-Hopf weak solutions for the 3D Hall-MHD system.*

We will talk about the non-uniqueness of weak solutions in Leray-Hopf space for the three dimensional magneto-hydrodynamics with Hall effect. We adapt the widely appreciated convex integration framework developed in a recent work of Buckmaster and Vicol for the Navier-Stokes equation, and with deep roots in a sequence of breakthrough papers for the Euler equation. (Received January 11, 2019)