Yingjie Liu*, 686 Cherry Street, Skiles Building, Atlanta, GA 30332. Central Schemes on Overlapping Cells for Solving MHD Equations on Triangular Meshes.

This talk is based on a recently submitted paper joint with Zhiliang Xu (U. of Notre Dame) We develop new central DG-type methods on overlapping cells for solving nonlinear MHD equations on triangular meshes. The methods are fully conservative for the magnetic field. New features are introduced to reduce the complexity. These methods also take advantage of the nice feature of central schemes to avoid dealing with Riemann problems at discontinuities of the electromagnetic field. (Received September 16, 2016)