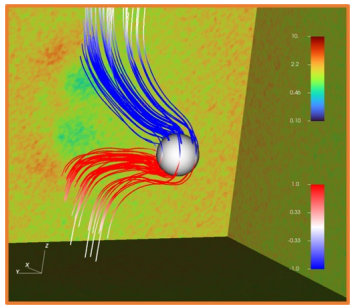
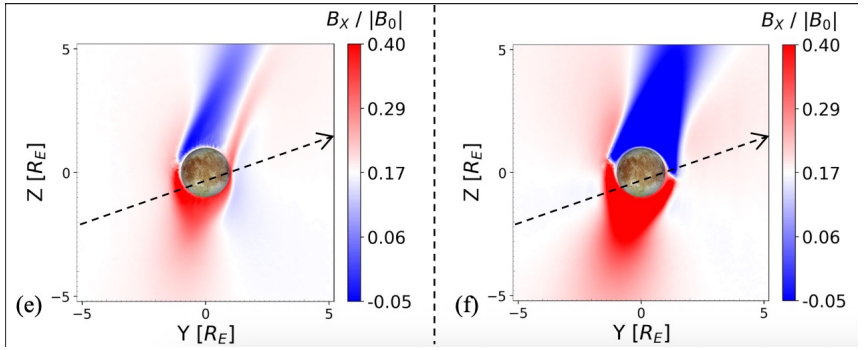
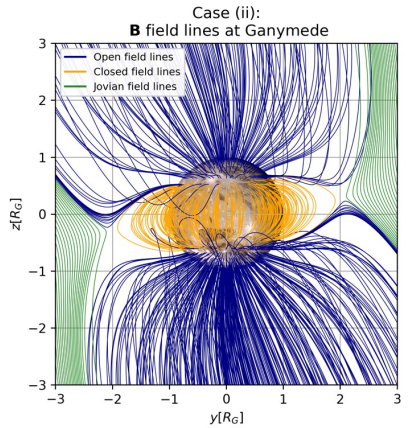
Michael Haynes







1. **[experience]:** numerical and analytical ODEs - PDEs, linear algebra & vector spaces, functional/complex analysis, bit of prob/stat/set theory
   [coursework]: *MATH 1664, 3670, 4320, 4347, 4348, 4541, 8803(MC)*
2. **[previous exposure]:** none :)
3. **[preferred language]:** python whenever good enough, c++ otherwise
4. **[example data]:** vector magnetometer readout collected near a planetary body with a conductive subsurface layer (e.g., Europa, Mercury, Ganymede): search for signatures of induced **B** field used for magnetic sounding of subsurface properties
5. **[learning goal]:** more powerful optimization / regression techniques beyond least squares, and practice PCA; also, how to quantify or estimate the influence of noise in a timeseries of observations