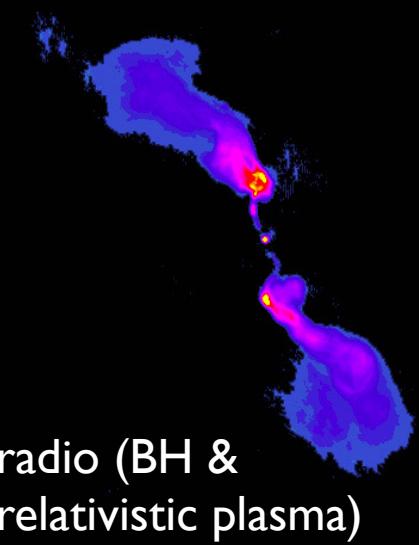
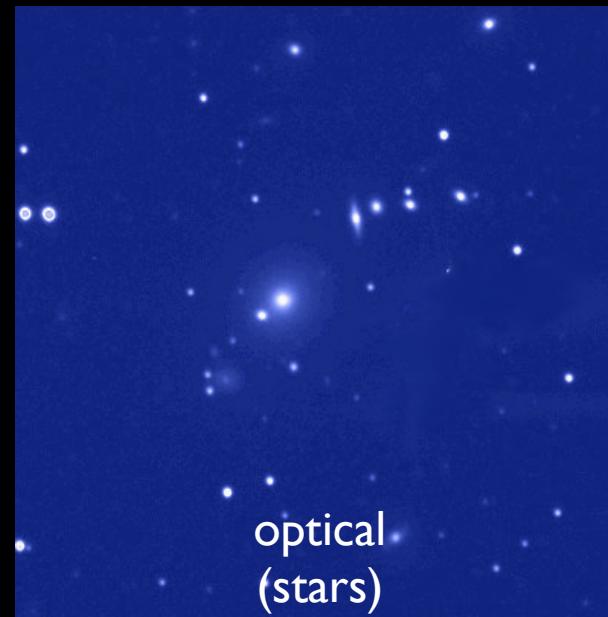
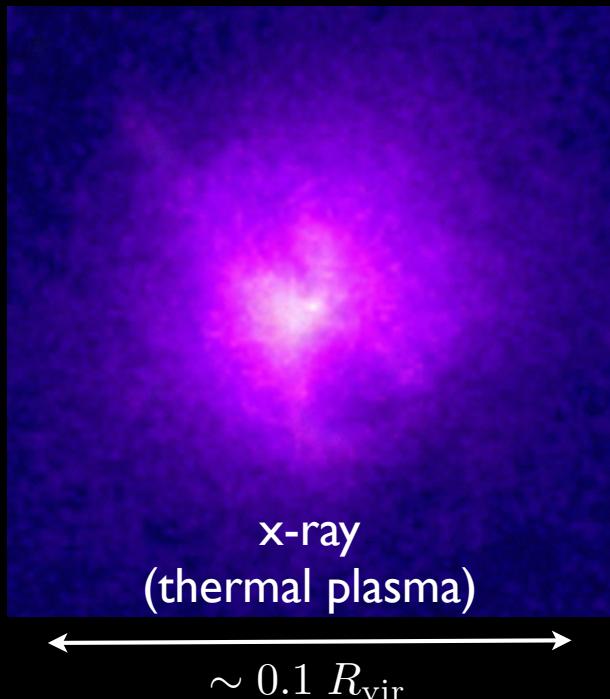


Ian Parrish

iparrish@cita
1404E

- **Galaxy Groups & Clusters**

- Convection and Heat Transport in the ICM
- Plasma Instabilities: MTI, HBI, viscosity, etc.
- Thermal instability: filaments, star formation
- Black hole accretion and feedback (jets/bubbles)
- Student: Mike McCourt (UC Berkeley Astro, 5th year)

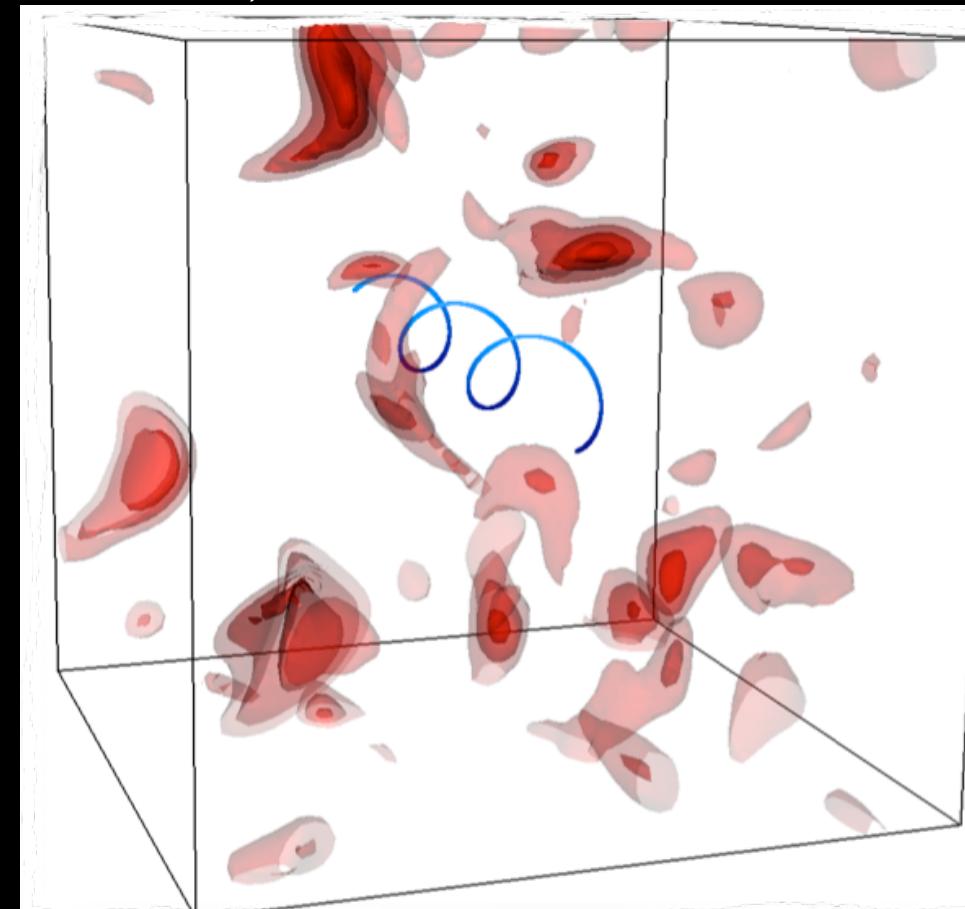


Ian Parrish

iparrish@cita
1404E

- Particle Acceleration & Heating

- Solar Wind
- MHD Turbulence (SN remnants)
- Particle Heating in MRI & BH Accretion
- Quasi-linear theory, Fermi Acceleration,
Cosmic Rays
- Student: Jacob Lynn (UC Berkeley Physics,
Ph.D.)



Ian Parrish

iparrish@cita
1404E

- Plasma Physics & Fusion
- High-Performance Supercomputing and GPU's with OpenACC
- Inflation of Hot Jupiters with Kristen Menou

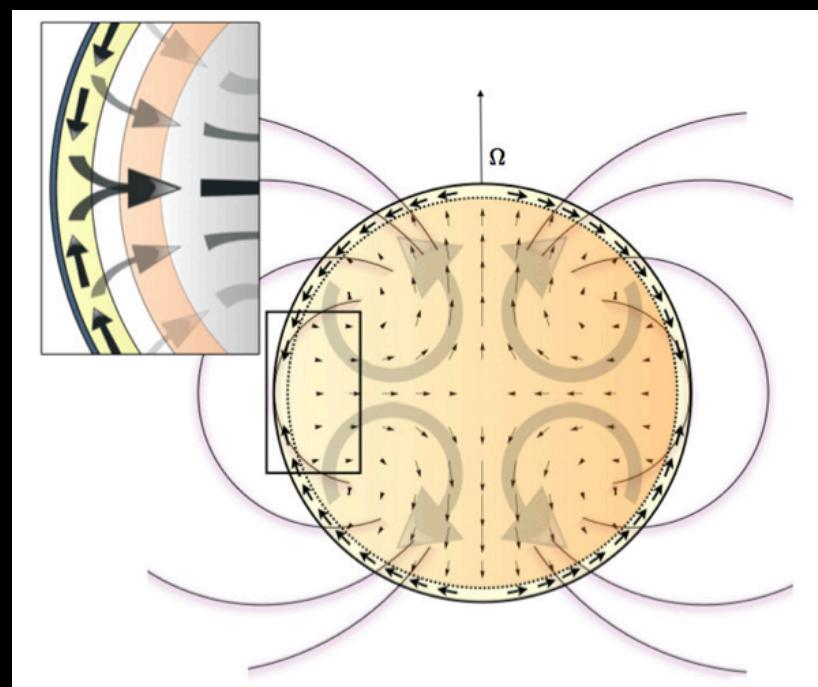


Figure from Batygin & Stevenson 2010