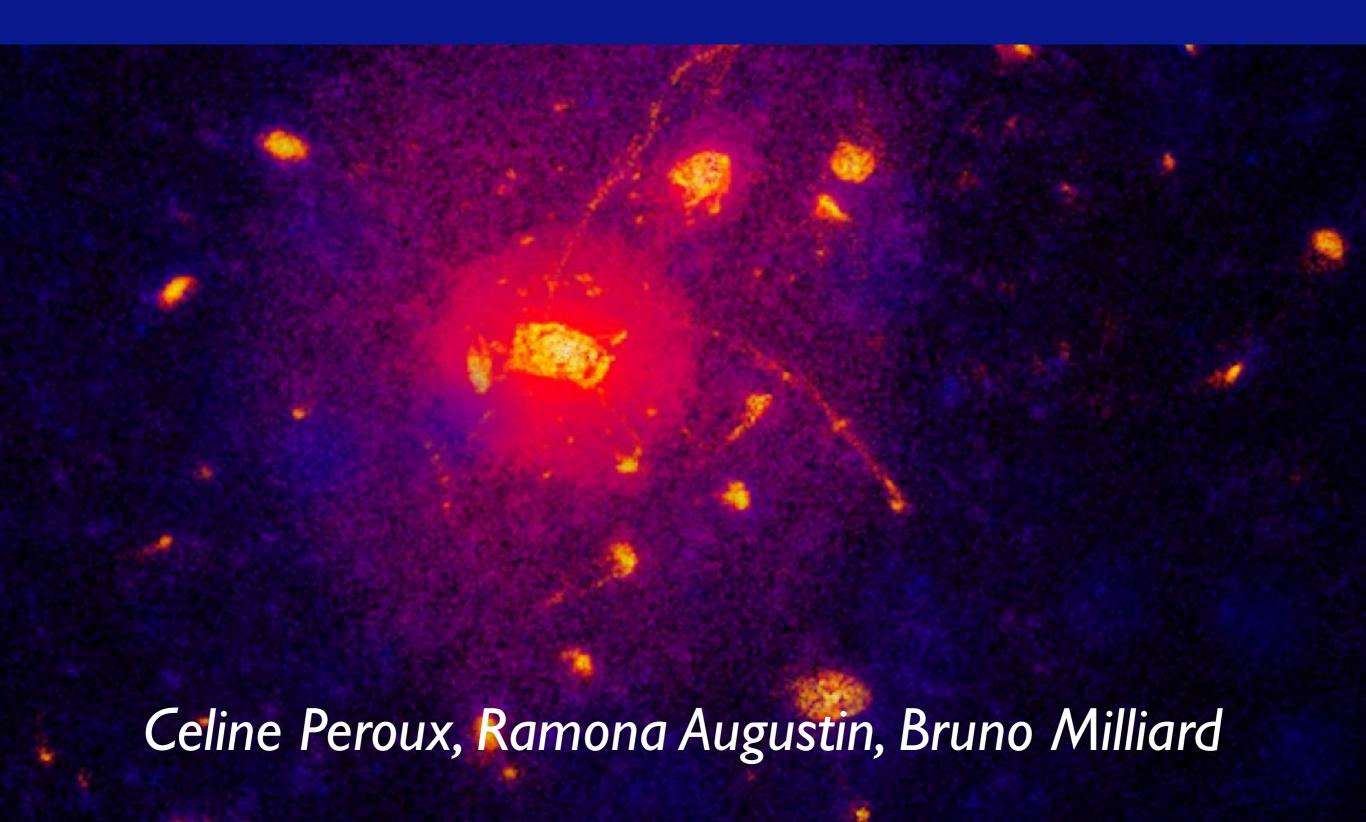
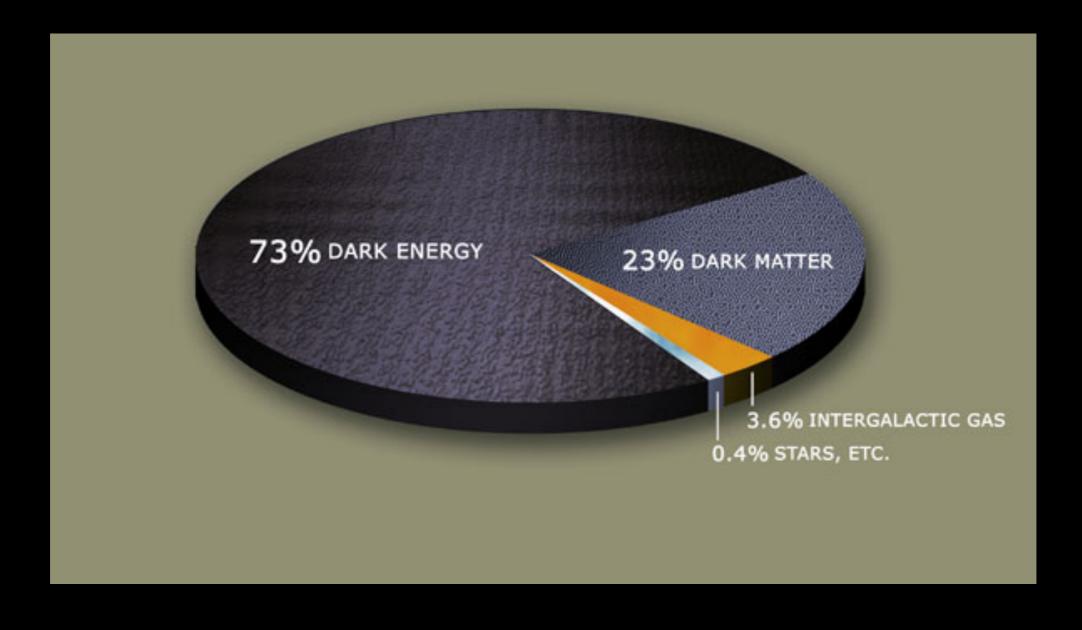
The Circum-Galactic Medium

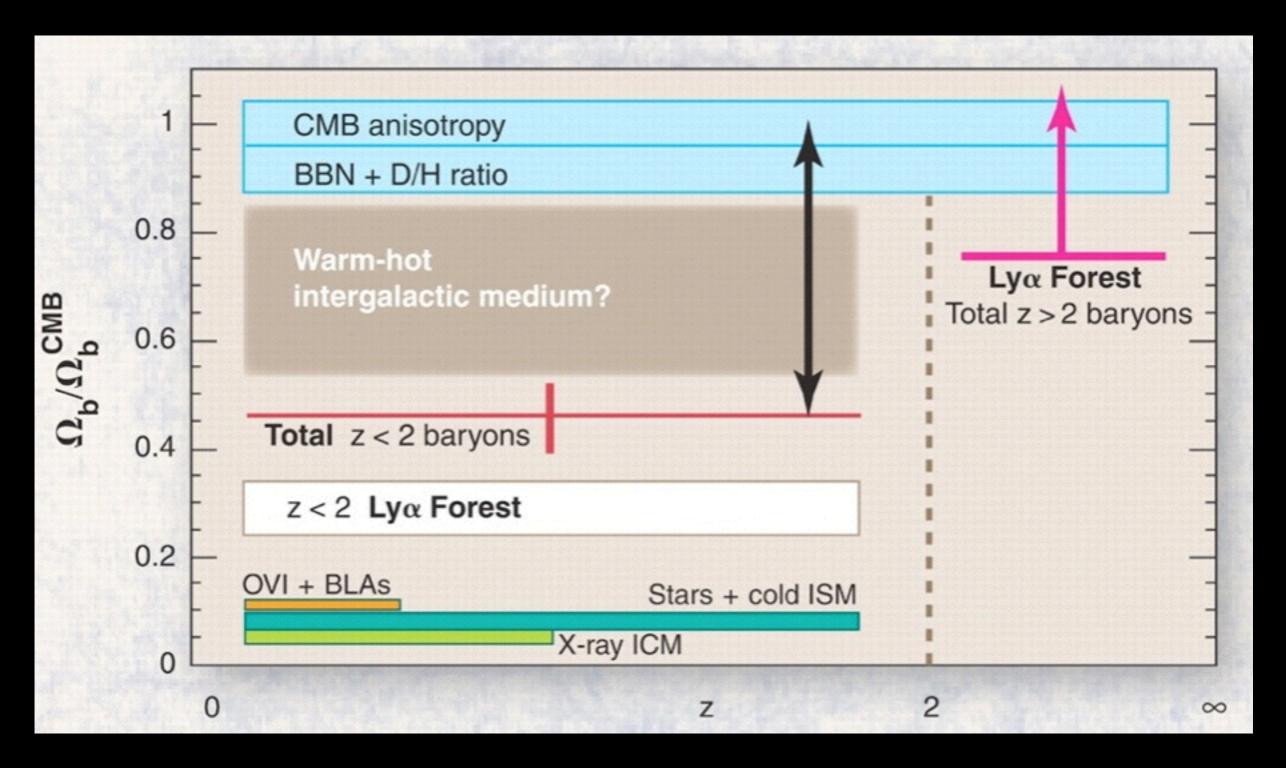


Universe Constituents

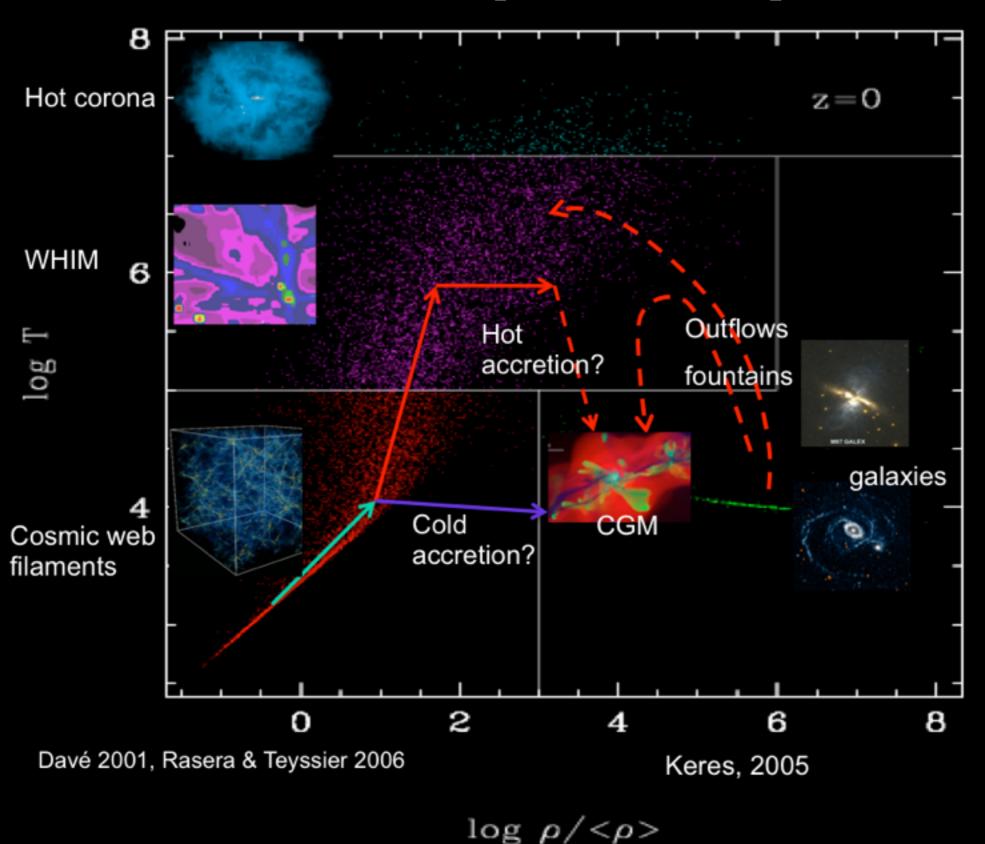


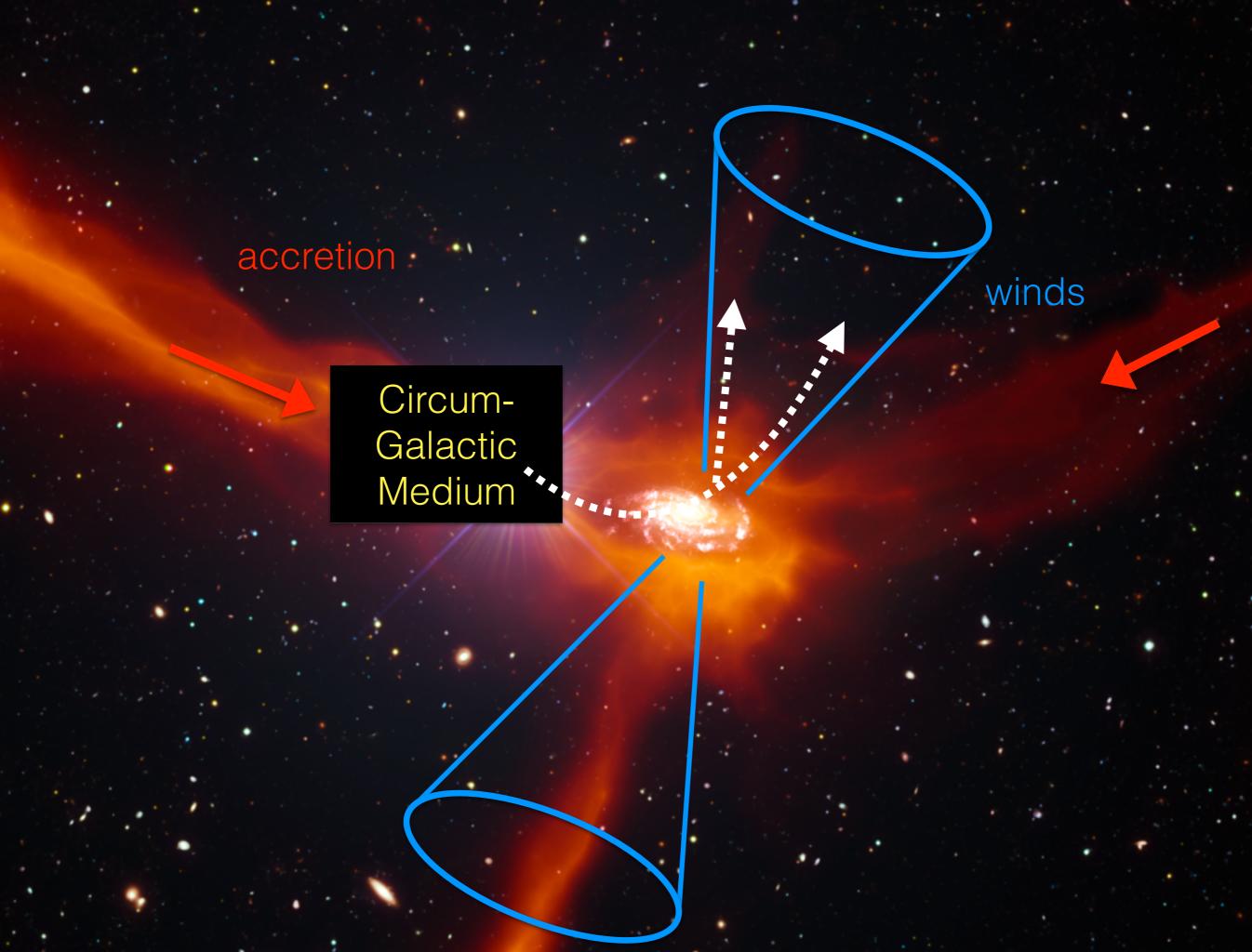
• only 10% of baryons in stars

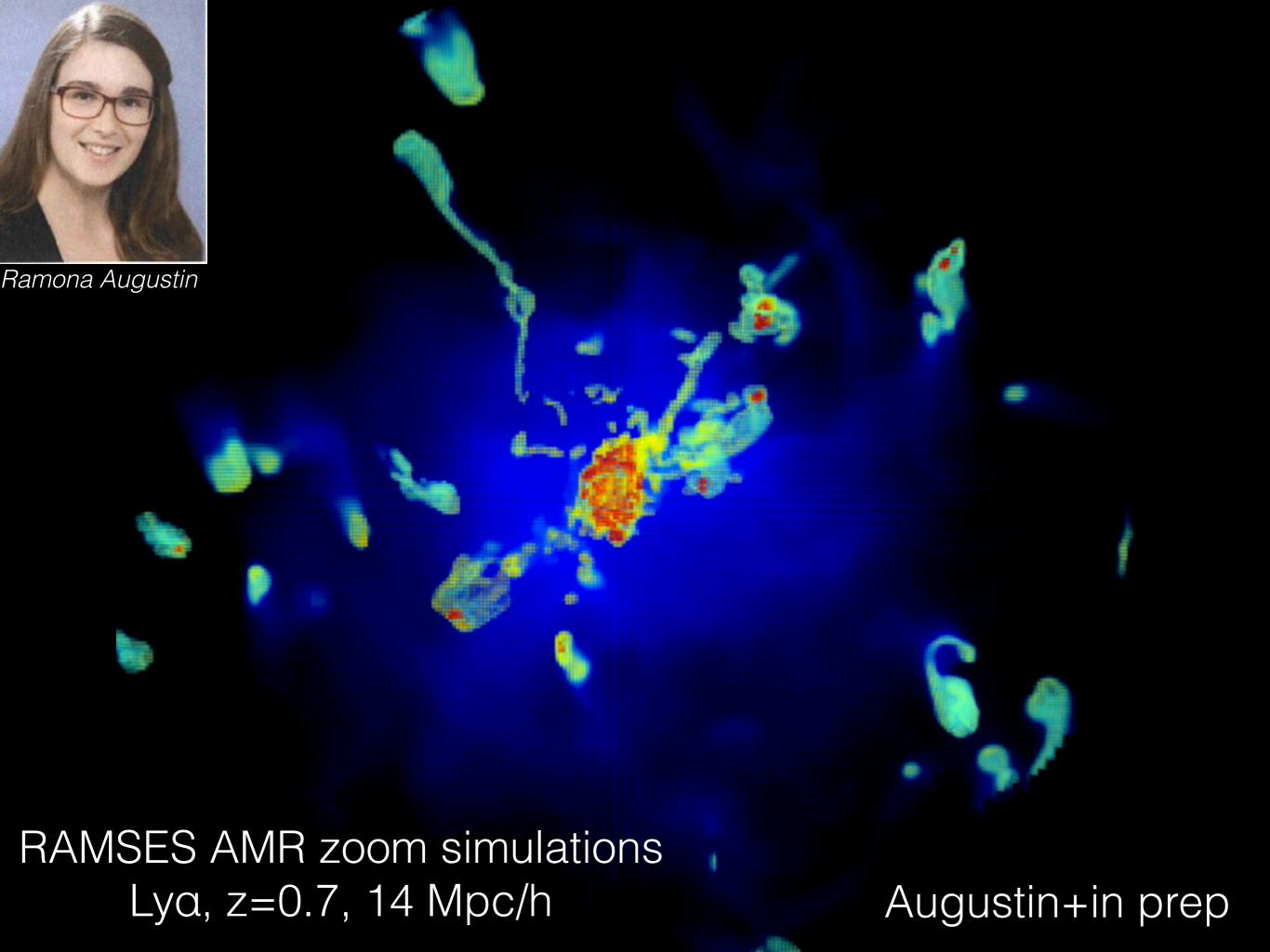
Where are the Baryons?



The Baryon Cycle



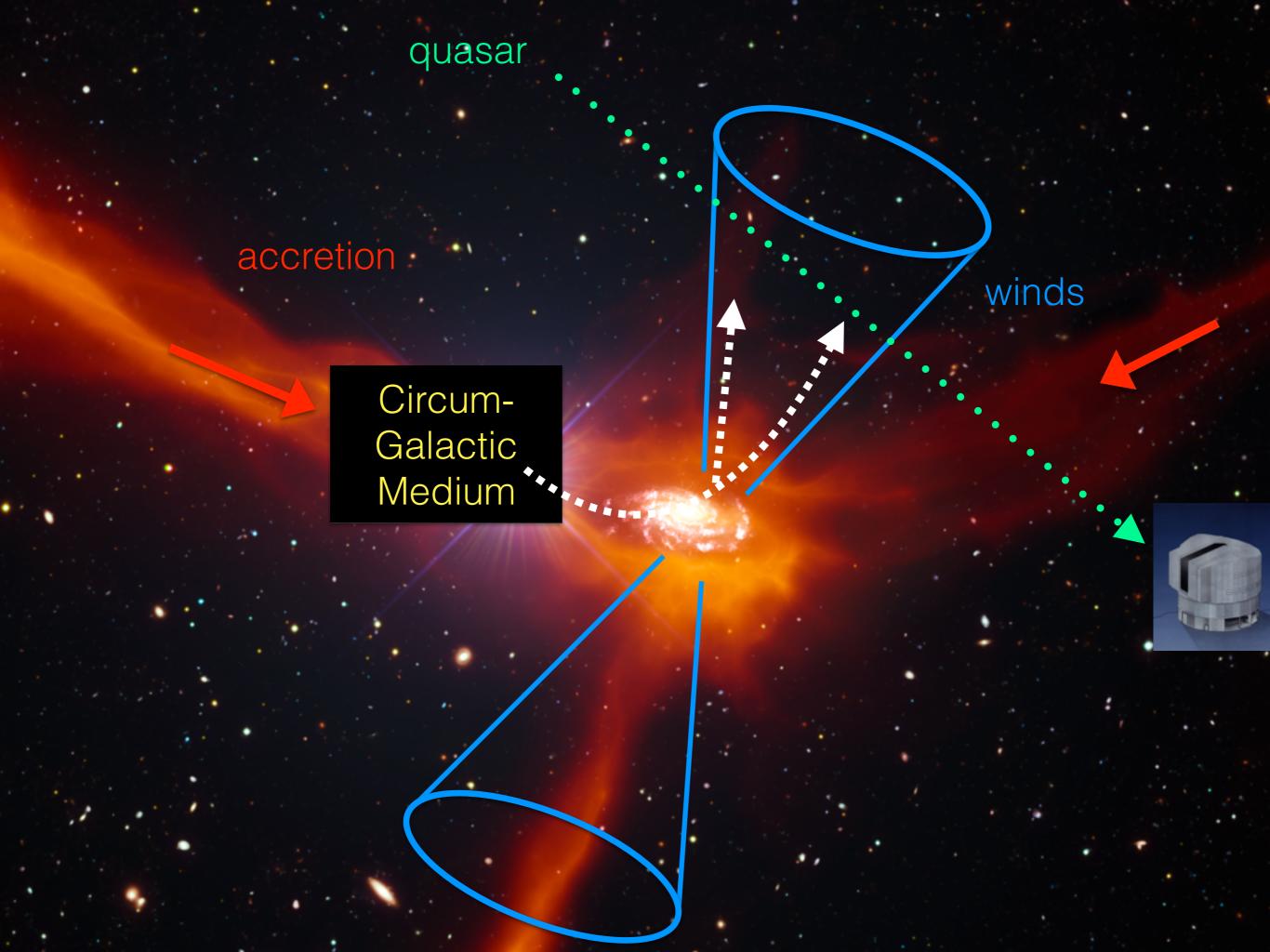




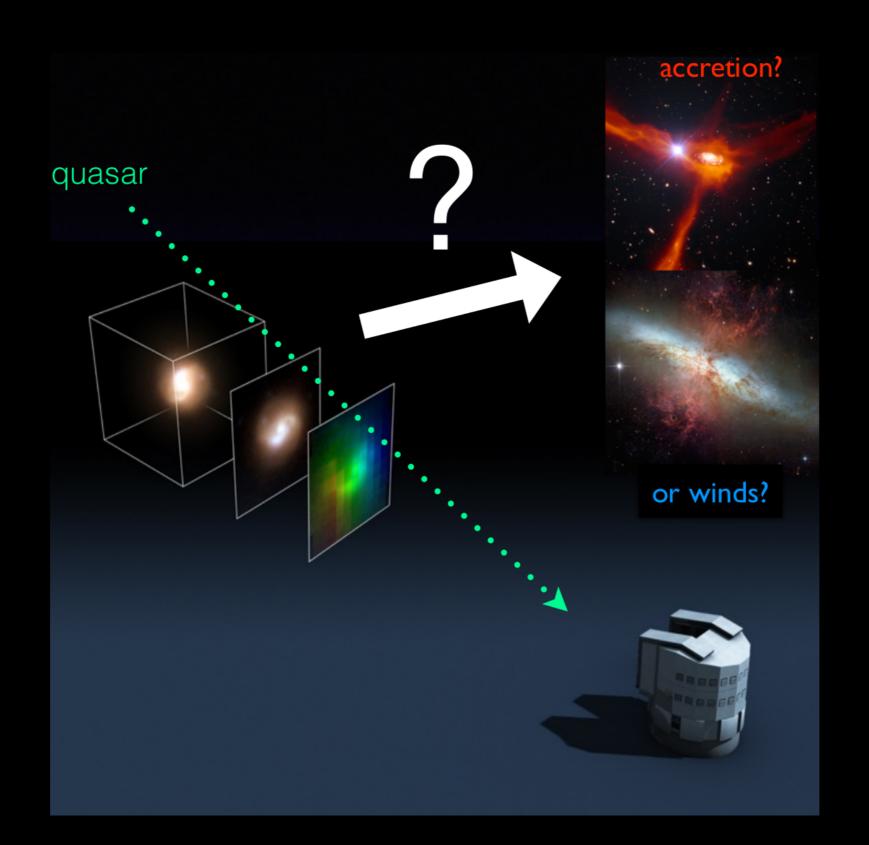
Questions to Address

- I. how do galaxies accrete gas?
- 2. how much mass/energy do winds carry?
- 3. how far do they travel?
- 4. how much gas falls back?
- 5. what are the <u>dynamics</u> of flows into and out of galaxies?

How to probe this gas?



3D Spectroscopy



Why 3D Spectroscopy?

- I. Search machine when location poorly constrained
- 2. Get spectrum of everything in the field
- 3. Circumvent slit-loss
- 4. Spatially resolved kinematics
- 5. Disentangle nearby objects on plane of sky
 - => tomography of the CGM

Current State-of-Art: MUSE

