

## Discussion Topics

### **Density & pressure profile science:**

How much uncertainty is there in the distribution of baryons in and around galactic halos?

How would knowledge of the electron density and pressure profile around galactic halos inform models for the CGM and galaxy formation?

### **Relation to traditional observables:**

How would SZ observations aid in understanding our traditional CGM diagnostic, absorption spectroscopy measurements? (colder gas v. hotter gas)

What is the relationship between stacked measurements of a large sample and high-resolution/detailed measurements of a single (or few) galaxies? How can these be combined in the most effective/robust way?

What about FRBs?

### **Observational reach of CMB-S4:**

What are the lowest halo masses that can be probed by CMB-S4? (e.g., low-z SDSS)

Are there other potential redshift surveys (or even custom-designed samples)?

Photometric possible for kSZ?

For tSZ, for what halos does 2-halo term become too big to cleanly remove?