- 1) How long does star formation keeps going in cluster galaxies? And what is the regulation process? Have we identified all the sources of feedback in our numerical recipes?
- 2) What observations do we need to make in order to understand the mechanism(s) that shut down star formation in cluster cores between $z\sim1-2$ (depending on cluster mass)
- 3) How will we observationally determine masses for clusters at z>1.5?
- 4) Do we have the tools/methodologies to interpret (proto)clusters from different selection and across cosmic time? Are there observables (beyond a hot ICM) that allow us to cleanly identify protoclusters as distinct from clusters? Can we predict if/when a given protocluster will collapse and what it's mass will be at z=0? what is a proto-cluster anyway??
- 5) Do halo masses determine the destiny of galaxy properties?