

A Tale of Tails: Environmentally-Driven Evolution of Cluster Galaxies

Galaxies in clusters are redder and of earlier types than galaxies in the field. What interactions can strip a galaxy of its gas? I will use the evolution of cluster galaxies formed in a cosmological simulation to show you that ram pressure stripping is the main driver of galaxy evolution. I will then compare a series of high-resolution galaxy simulations to observations, and make predictions for observers to test that will help constrain the efficiency of heat conduction in the intracluster medium. Finally, I will ask if gas has to be stripped for a galaxy to evolve.