

A fundamental question in the field of galaxy formation and evolution is what ultimately decides the fate and final state of galaxies that live inside dark matter halos and co-evolve with the large-scale environment. The goal of this scientific assembly is to make solid progress in our understanding of close connections between galaxy properties and the large scale environment. Related science topics include the following aspects:

- The effects of large-scale tidal torque environment on galaxy evolution
- * The role of galaxy merger and interaction on galaxy evolution
- Physics of CGM and its role in linking galaxies and their large-scale environment
- How do galaxies acquire and lose spin in dark matter, gas and stars
- How do galaxies build up and consume the cold gas reservoirs
- Connections to environmental types (knot, filament, sheet and void)
- Connections to halo assembly bias
- Connections to galaxy conformity
- Observational inferences from the CGM and galaxy surveys



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