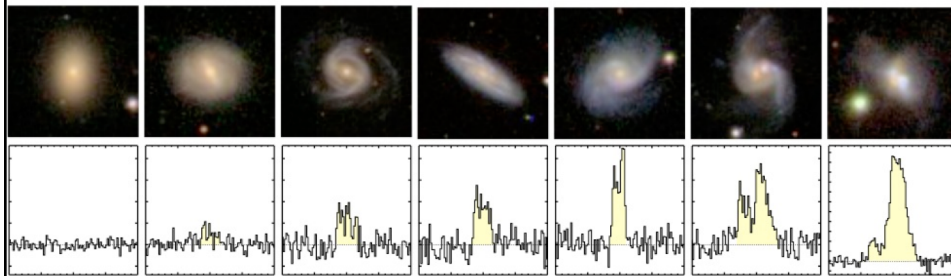


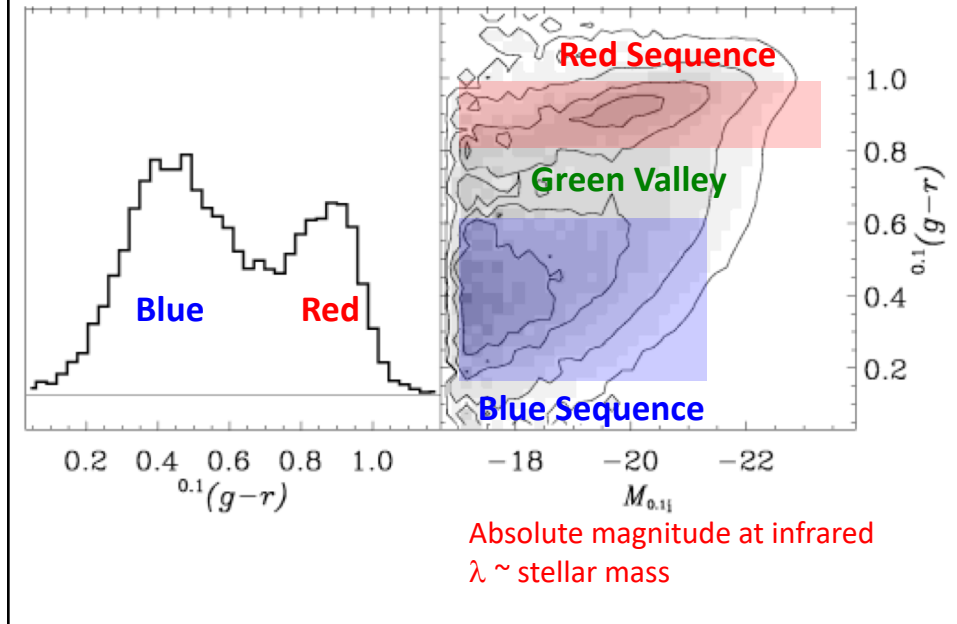
## Cold Molecular Gas vs. Galaxy Type



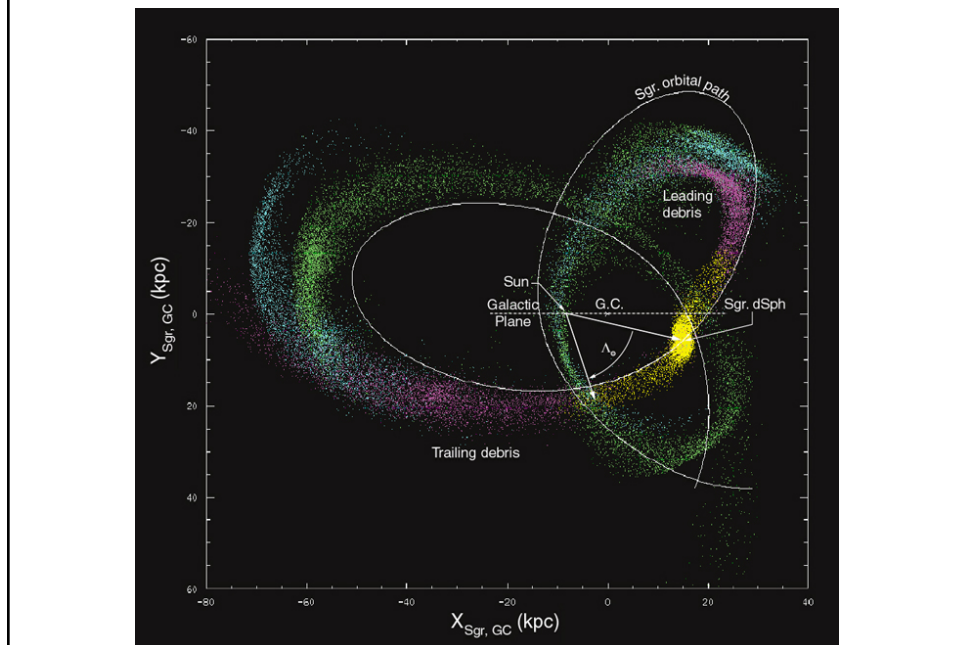
Molecular gas traced by CO 1-0

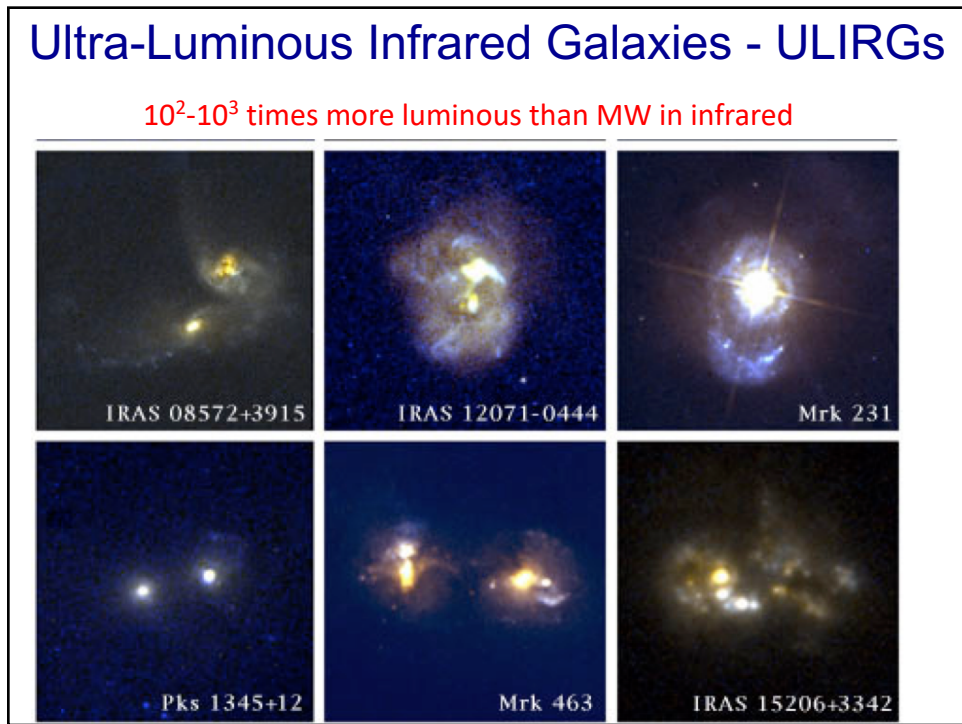
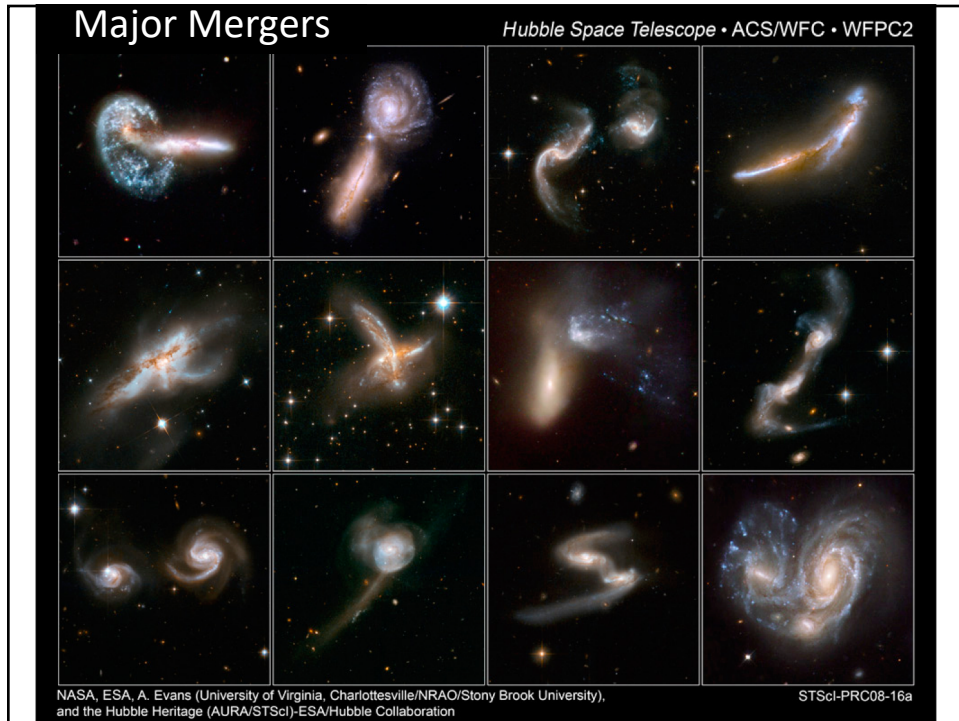
COLD GAS Survey

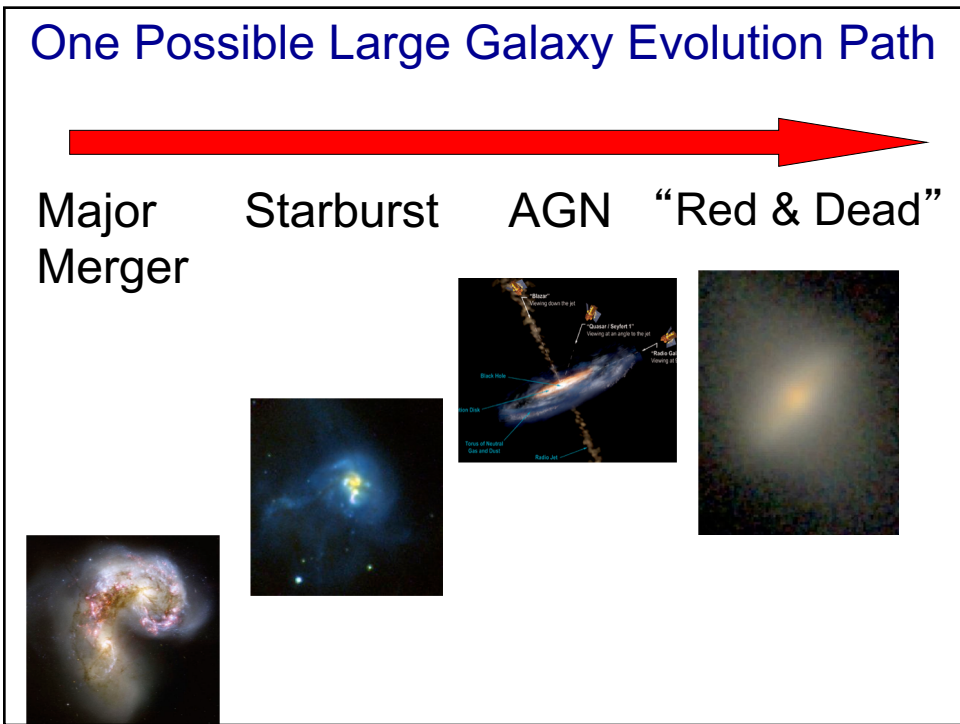
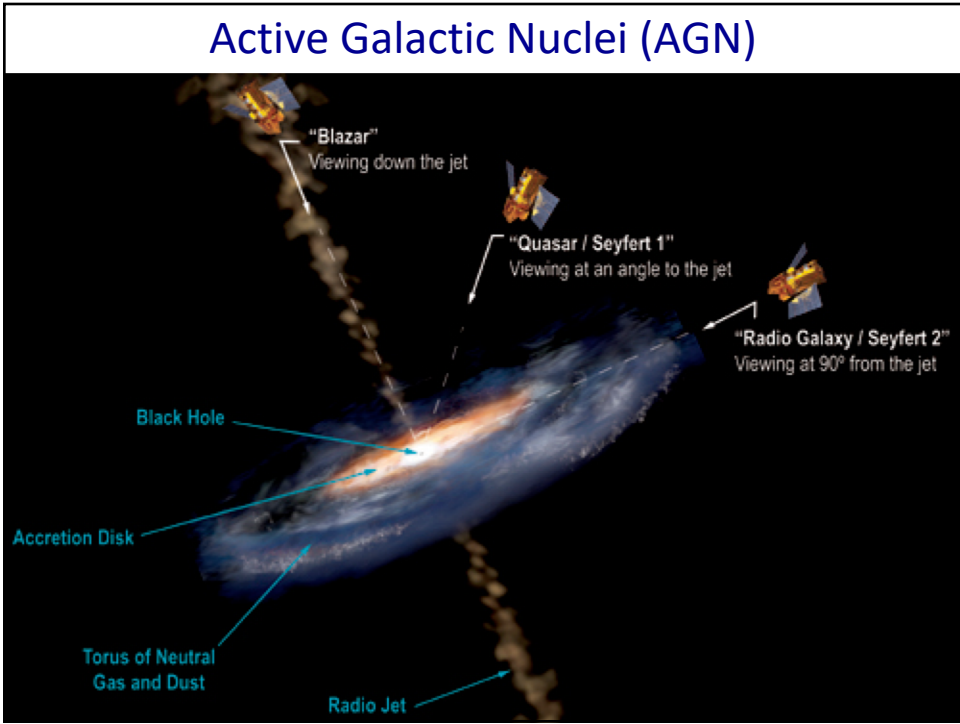
## Galaxy Bimodal Color-Magnitude Distribution



## Minor Mergers : Milky Way and SGR Dwarf Spheroidal



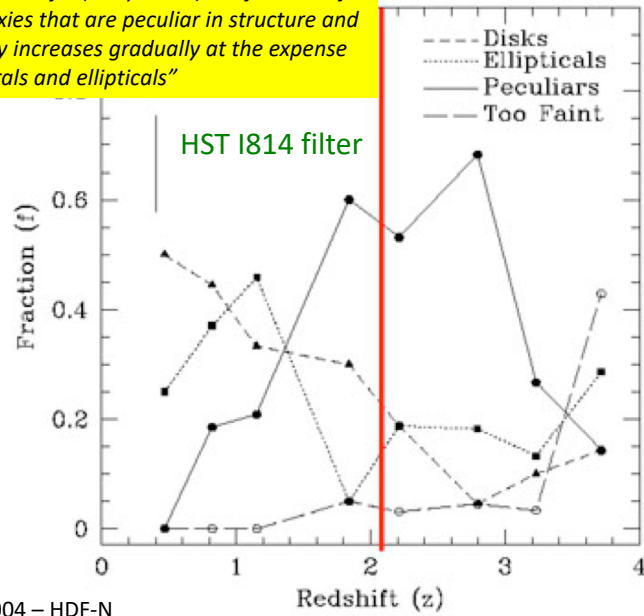






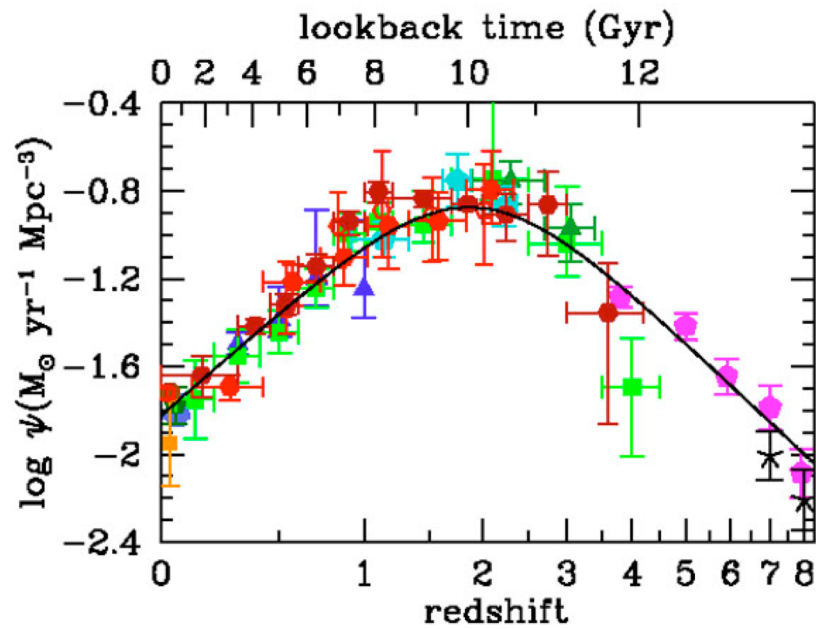
## Galaxy morphology vs Redshift

"At higher redshifts (early times) the fraction of bright galaxies that are peculiar in structure and morphology increases gradually at the expense of both spirals and ellipticals"



Conselice 2004 – HDF-N

## Cosmic Star Formation Rate



Madau & Dickenson 2014 ARA&A

