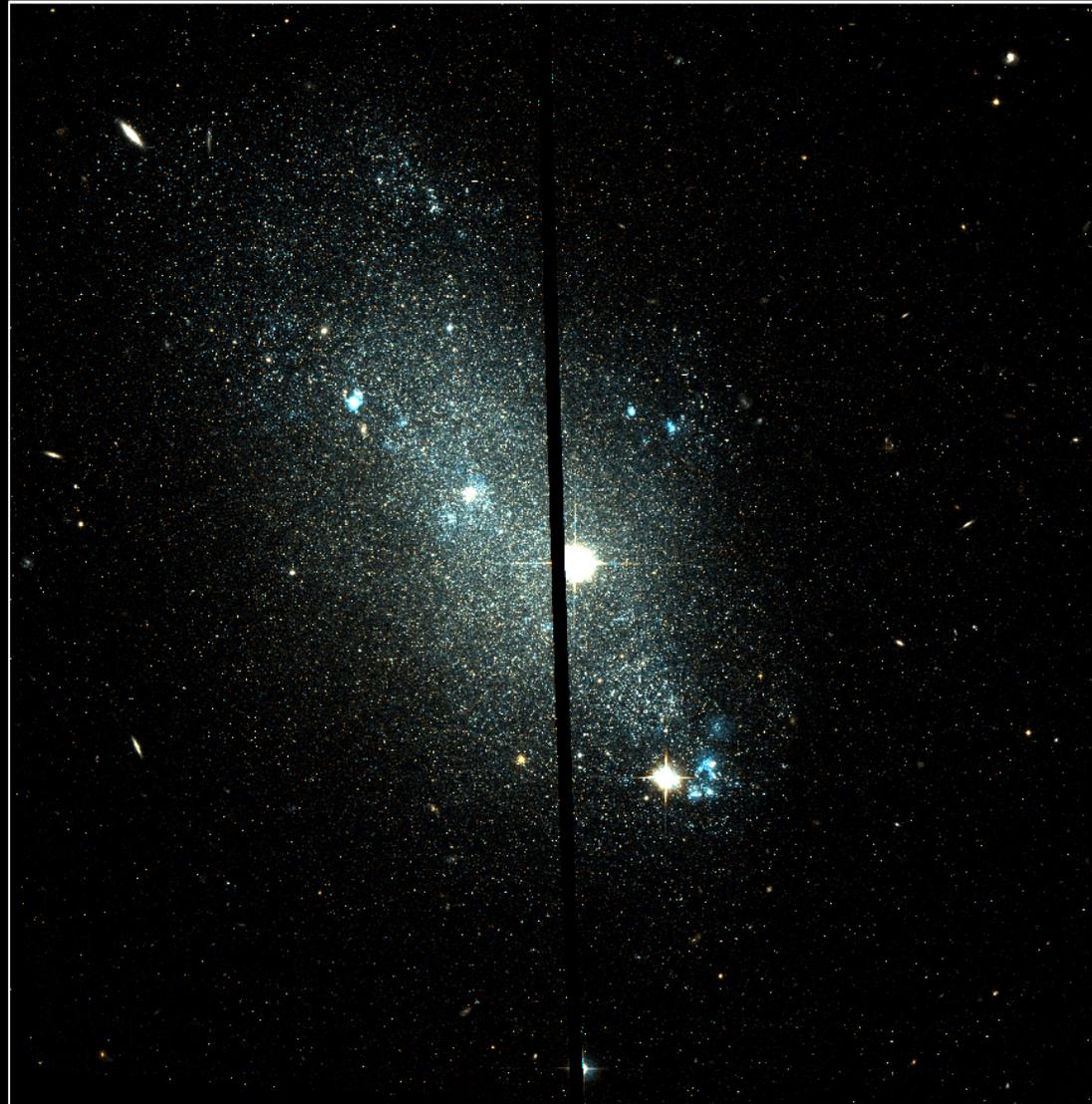


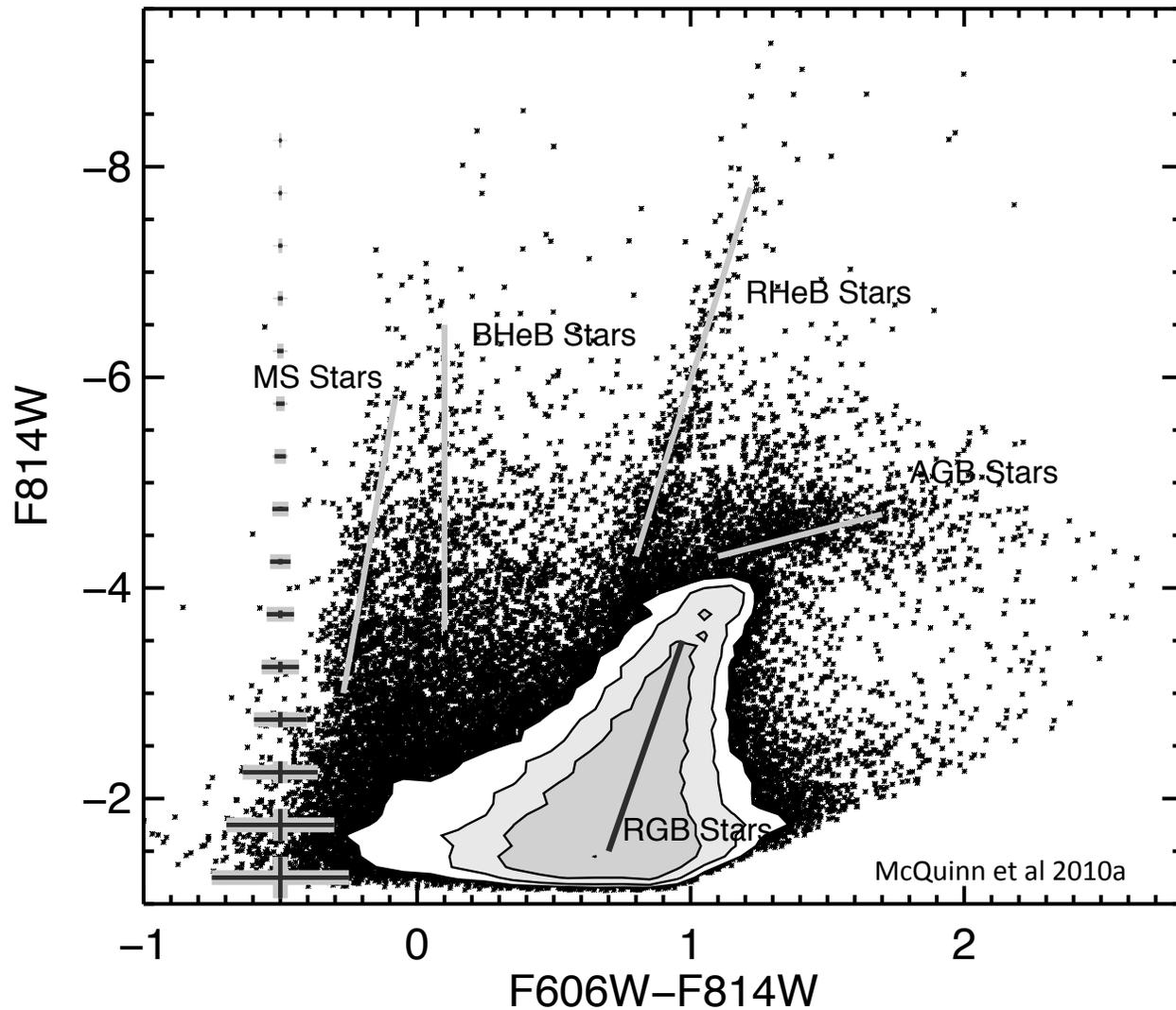
# Resolved Stellar Populations in Nearby Galaxies

Kristen B. W. McQuinn  
Minnesota Institute for Astrophysics  
University of Minnesota

# NGC 4068: HST

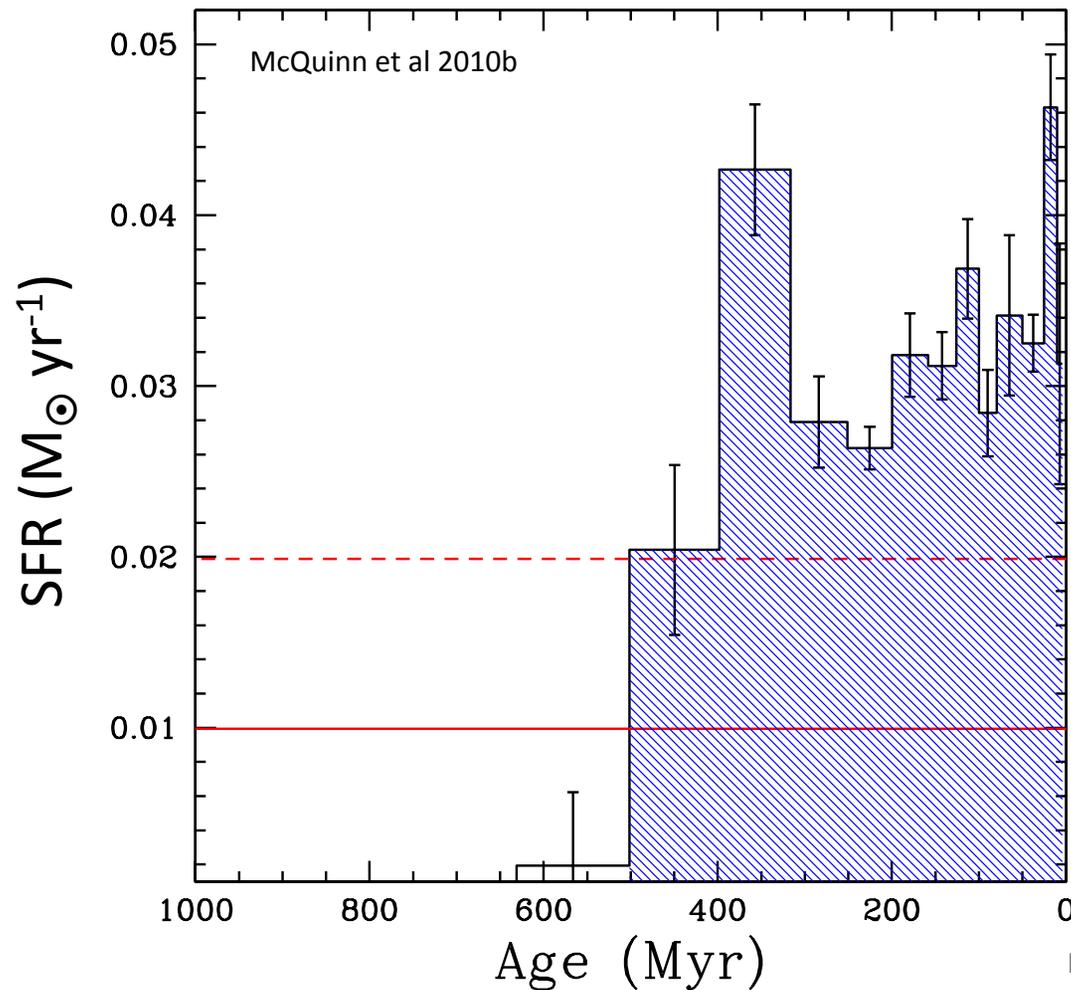


# Optical CMDs



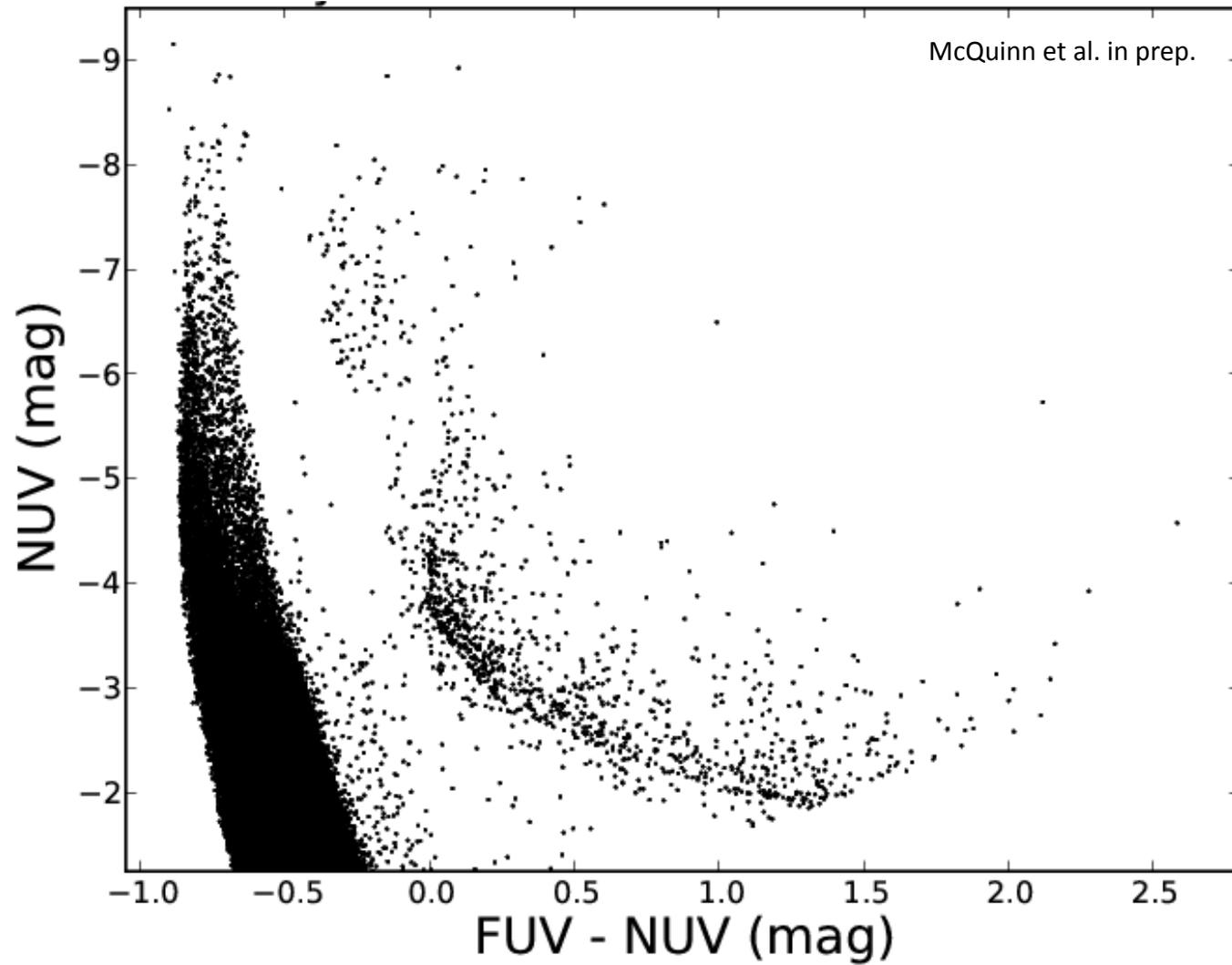
# Star Formation Rate... as a function of time

---

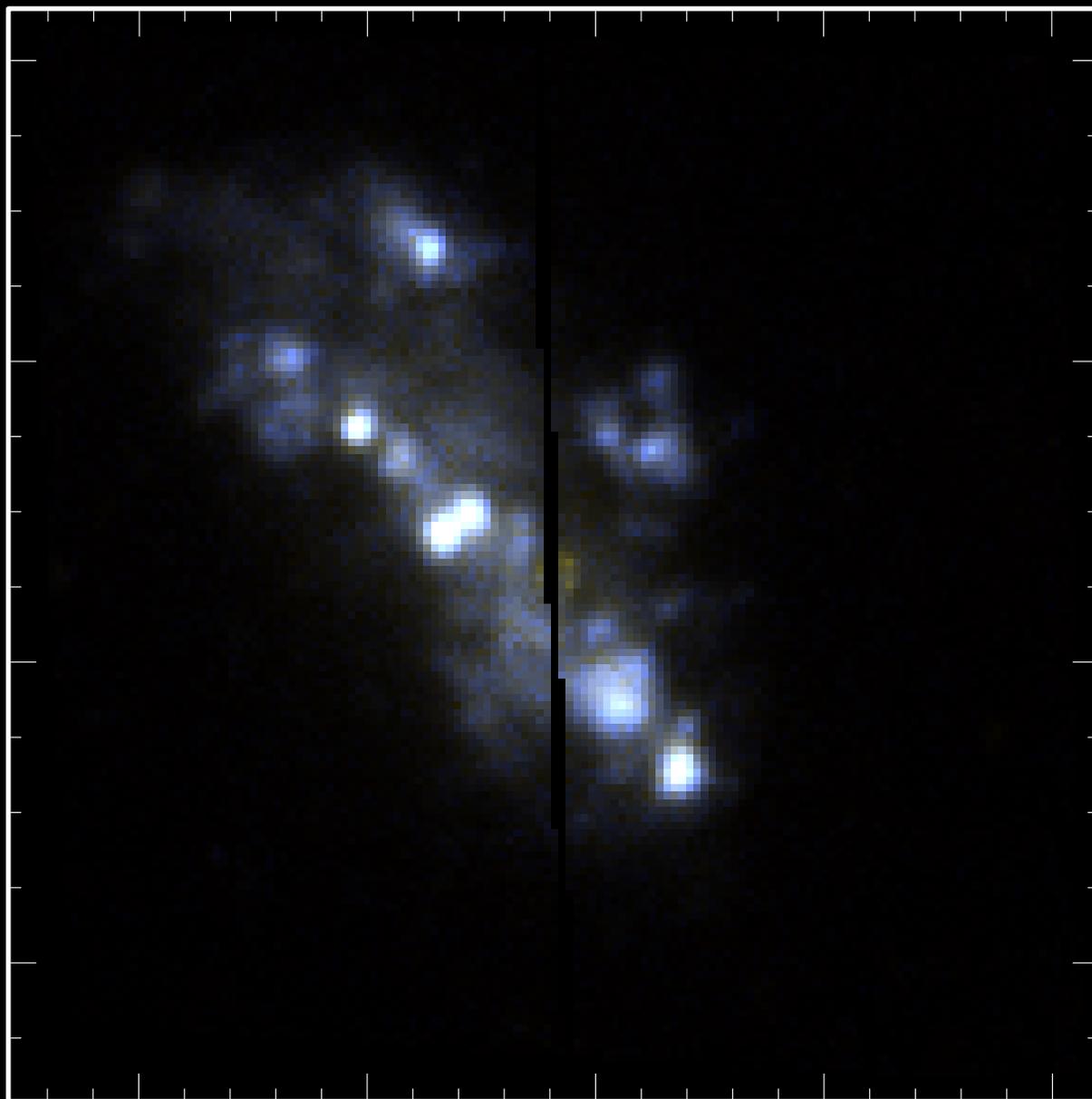


# Equivalent UV CMD

---

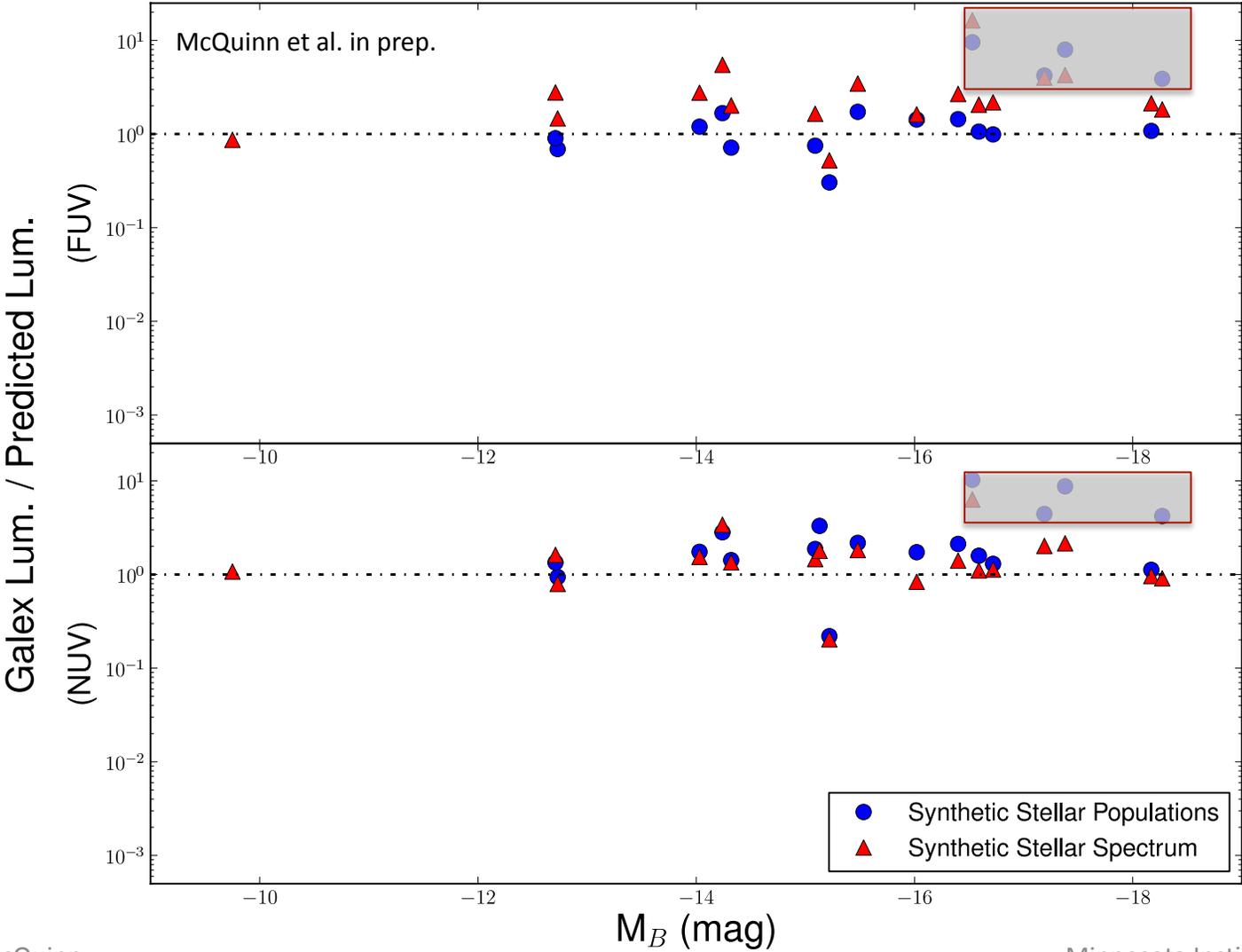


# NGC 4068: GALEX

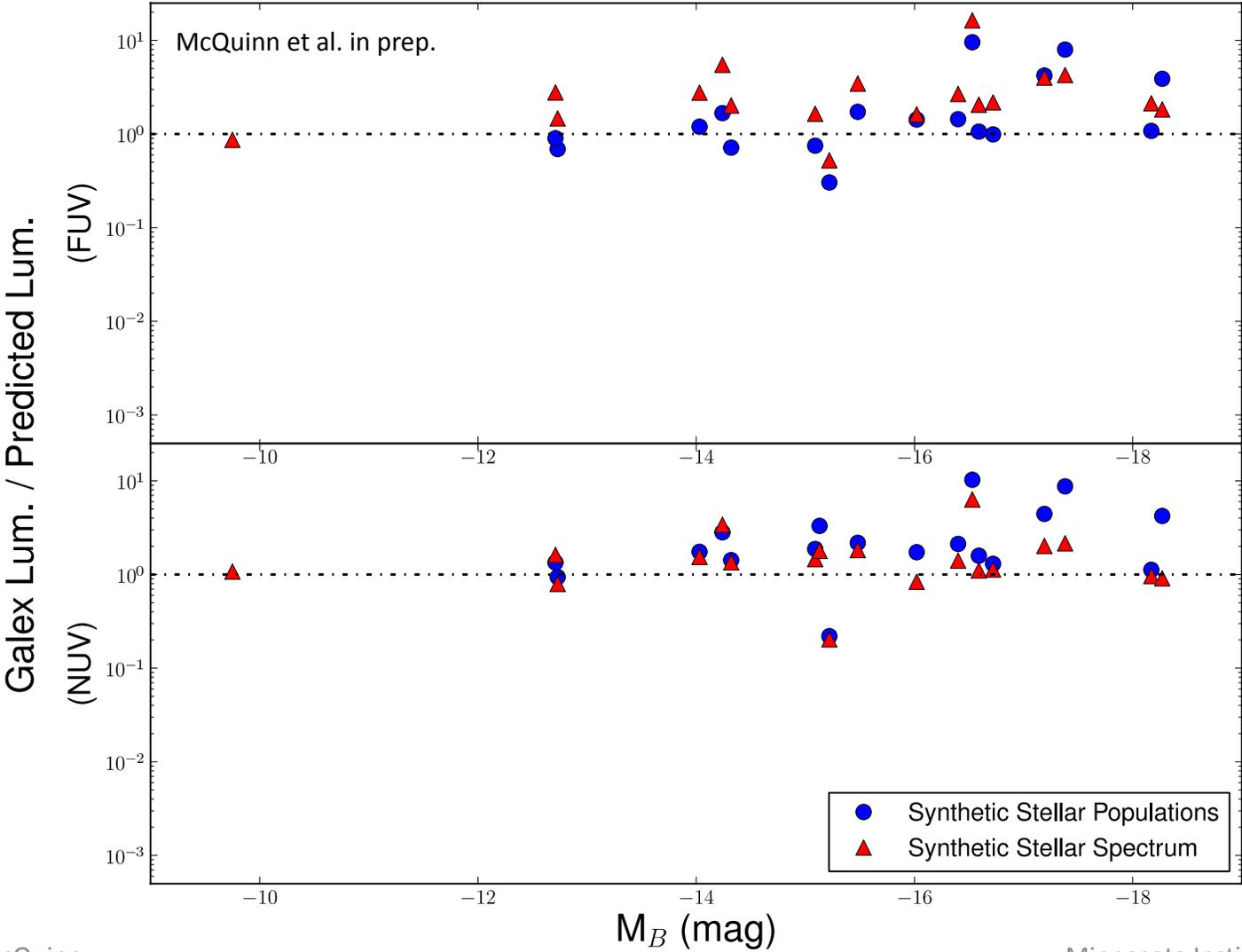


Right Ascension (J2000)

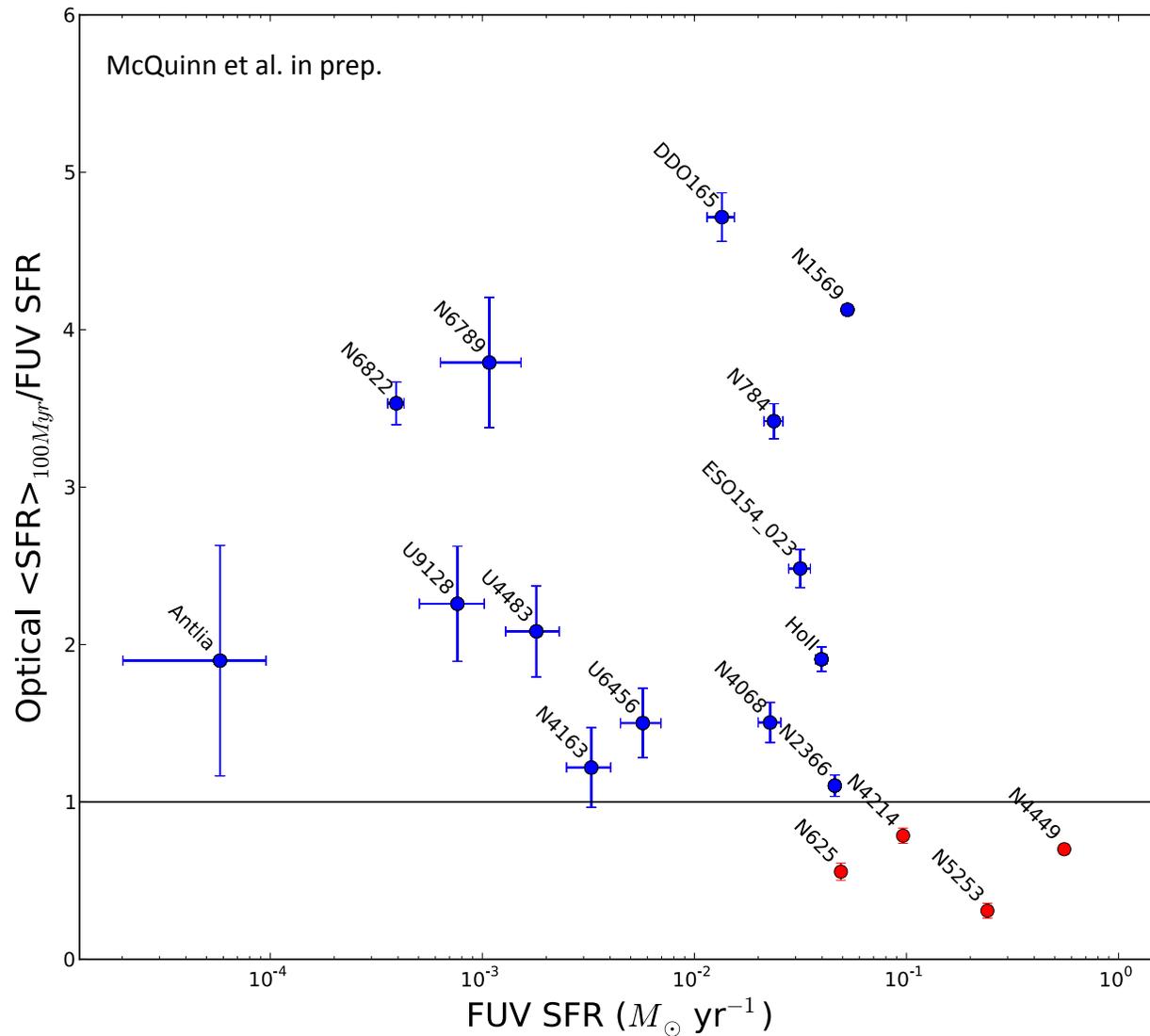
# Can we connect Optical and UV fluxes?



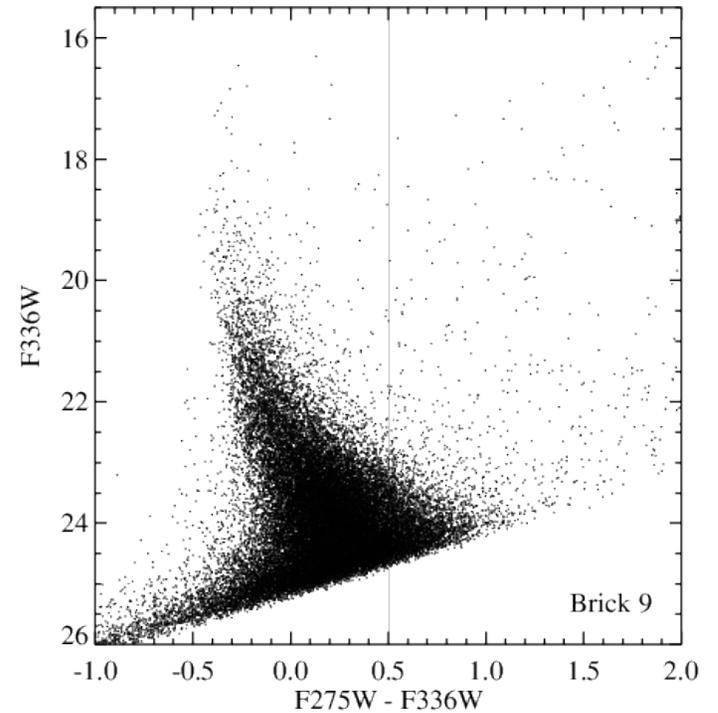
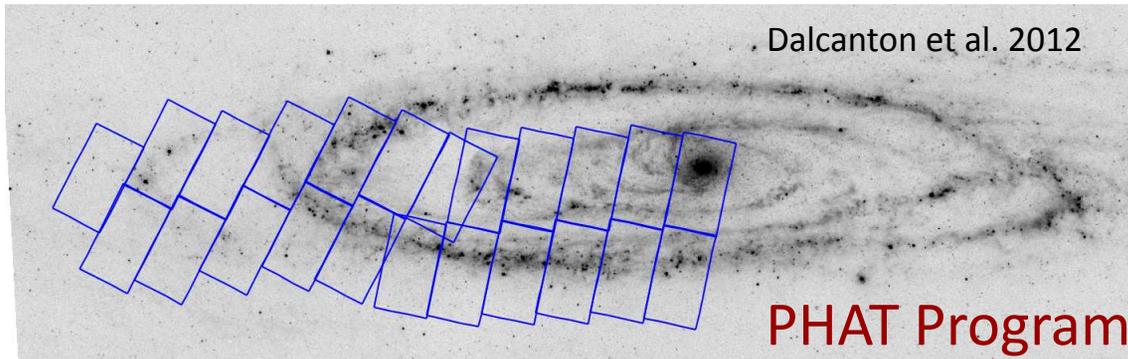
# Can we connect Optical and UV fluxes?



# Mismatch between SFRs

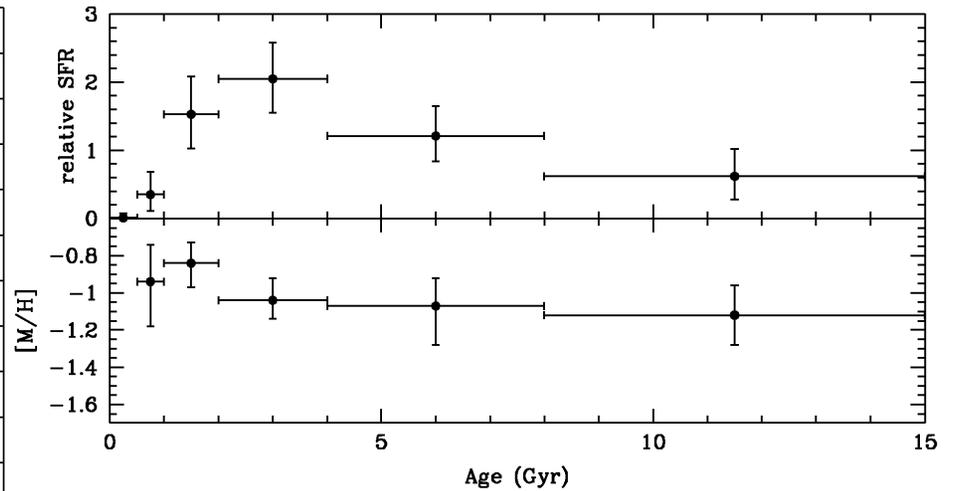
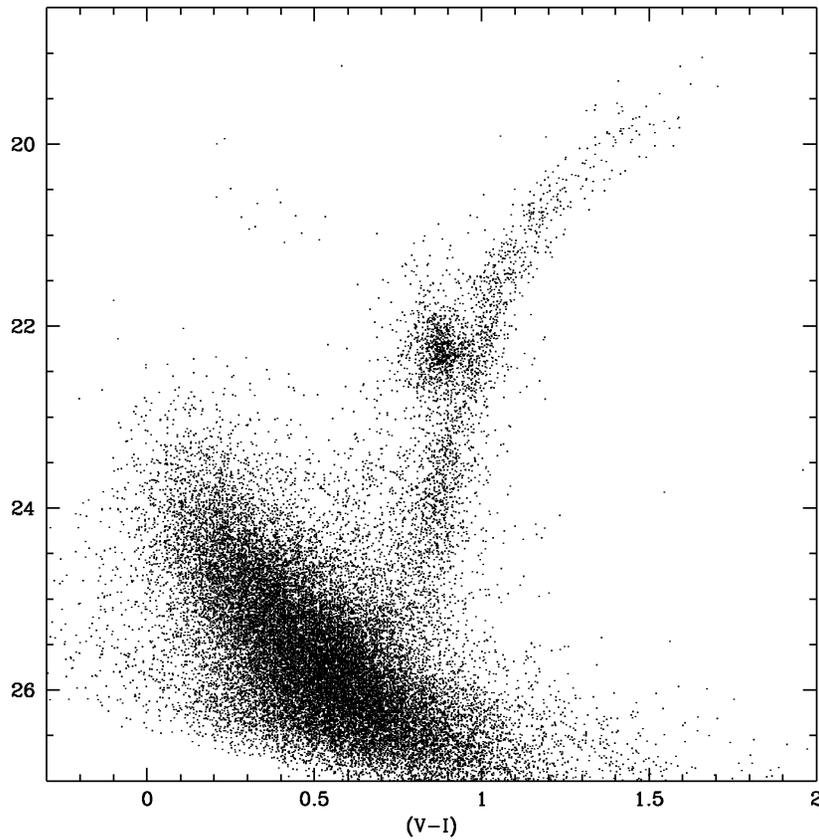


# UV Resolved Stellar Populations

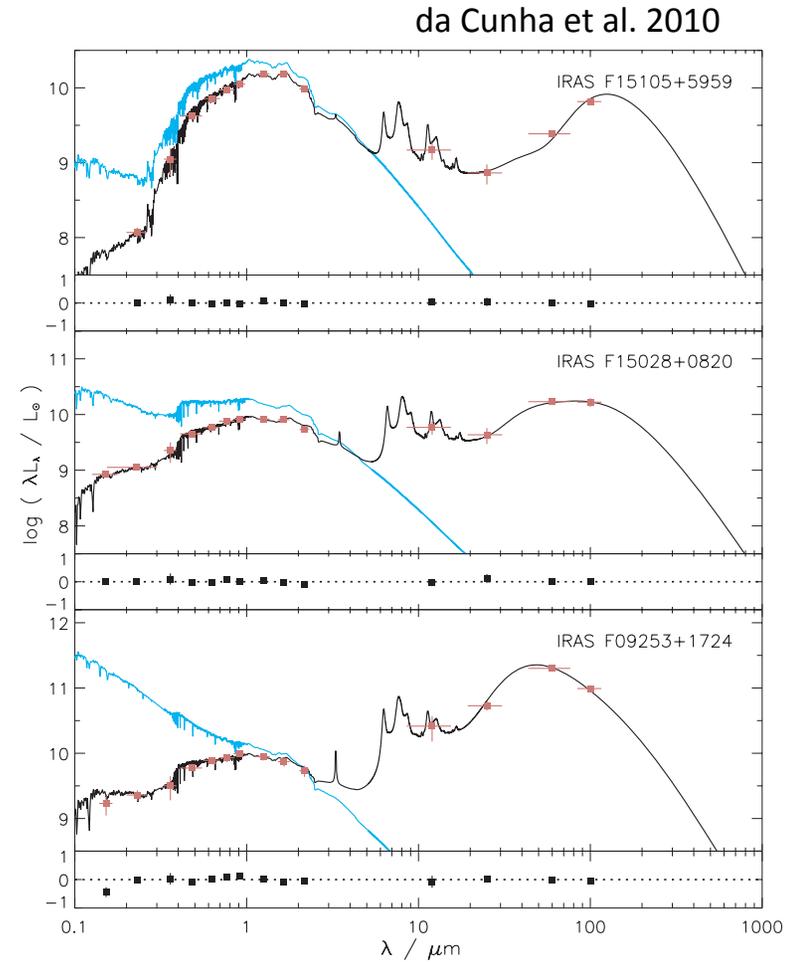
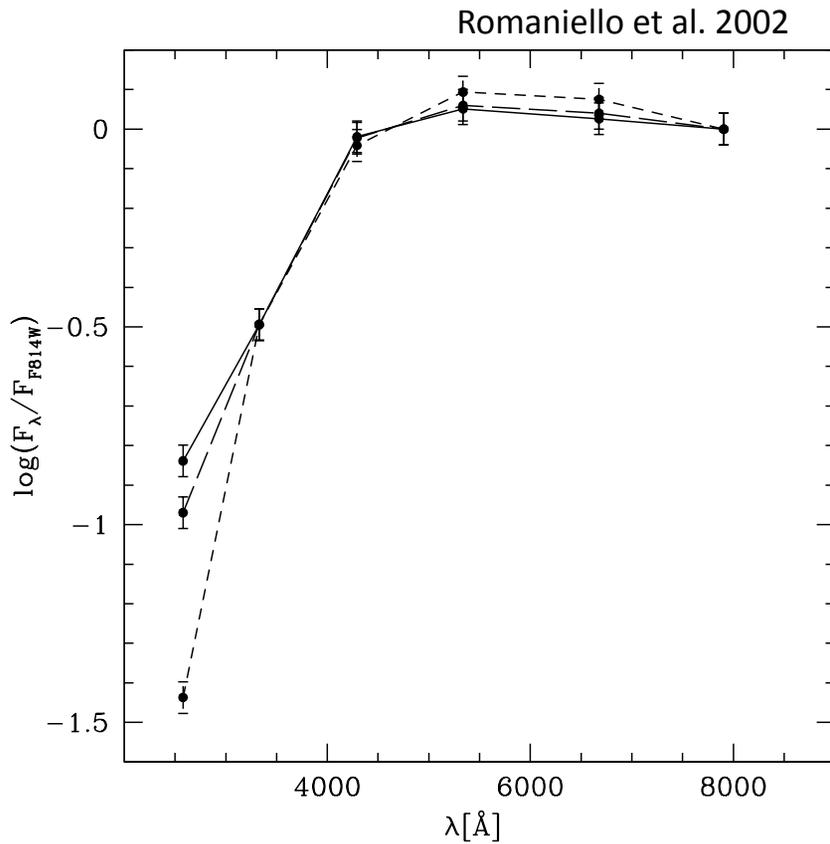


# Chemical Enrichment Histories

Dolphin 2002



# The Importance of the UV in SED Fitting



# Summary

---

- Ground Truth on UV emission from stellar populations
  - Accurately predict the UV flux from composite stellar populations
  - FUV SFRs calculated from scaling relations are too low
- Future gains
  - Constraints on the recent chemical enrichment of galaxies as a function of radius
  - Improved models of UV bright BHeB stars
  - Relative weights of recent vs. intermediate and old SF in galaxies