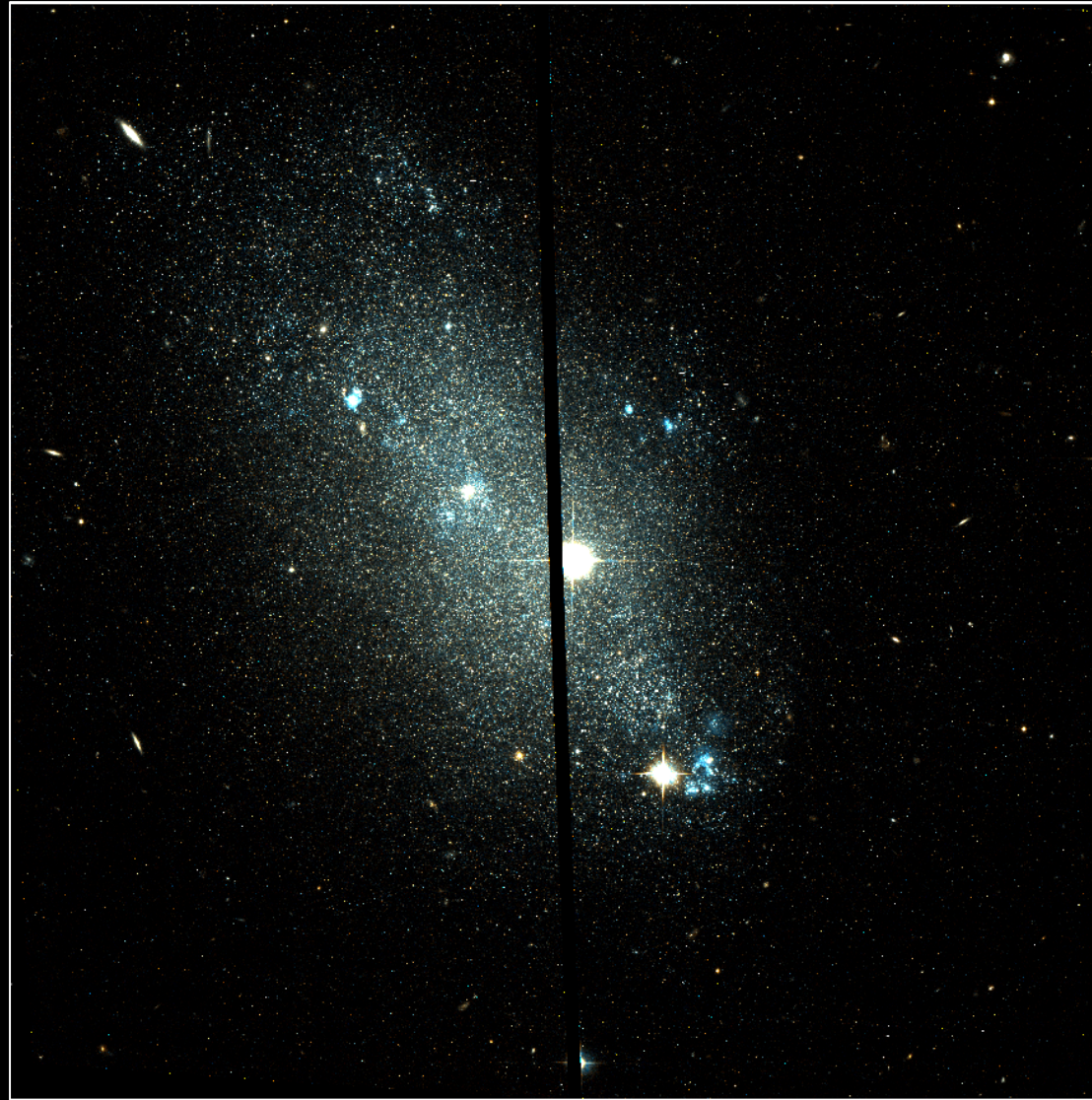




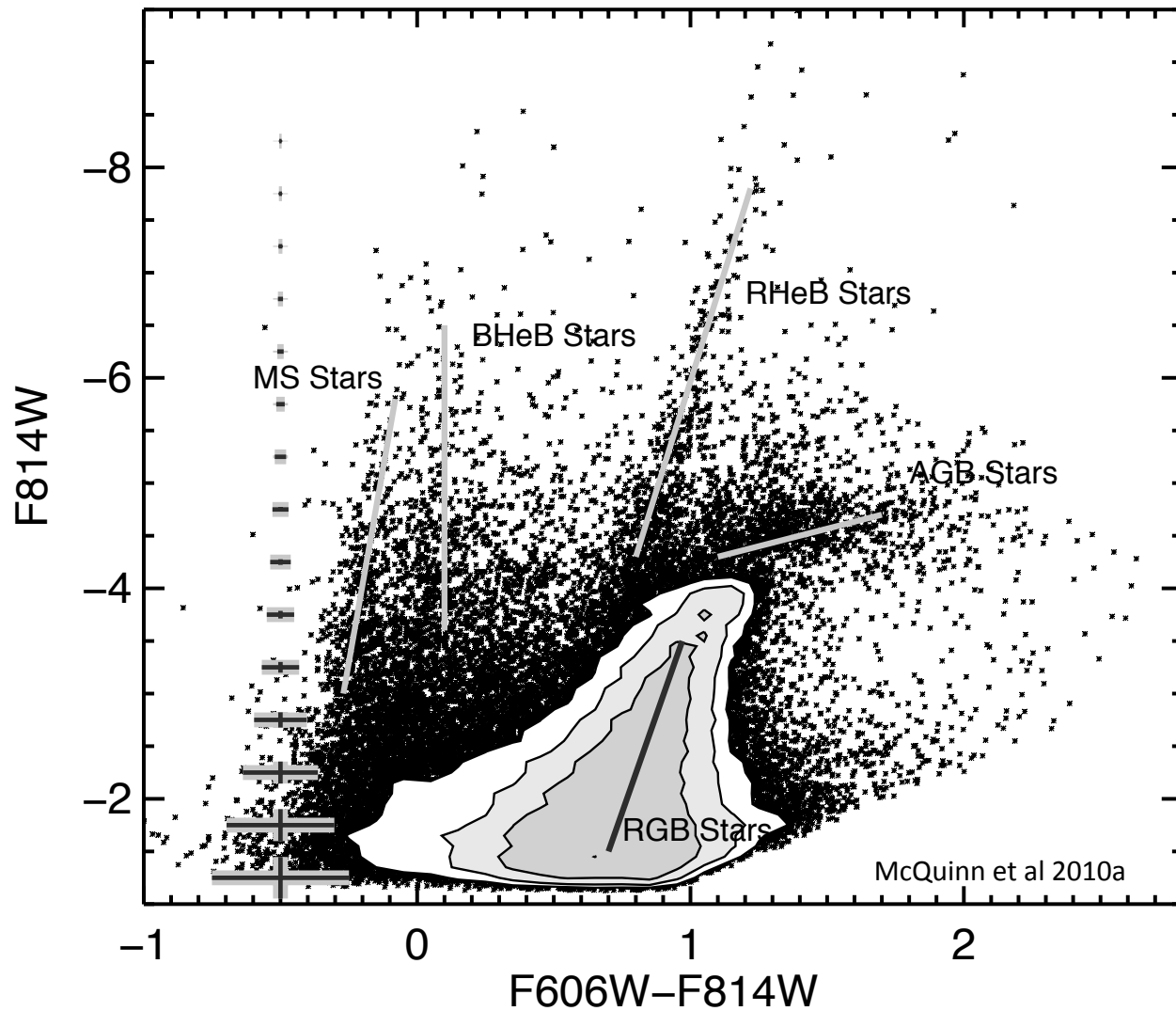
Resolved Stellar Populations in Nearby Galaxies

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

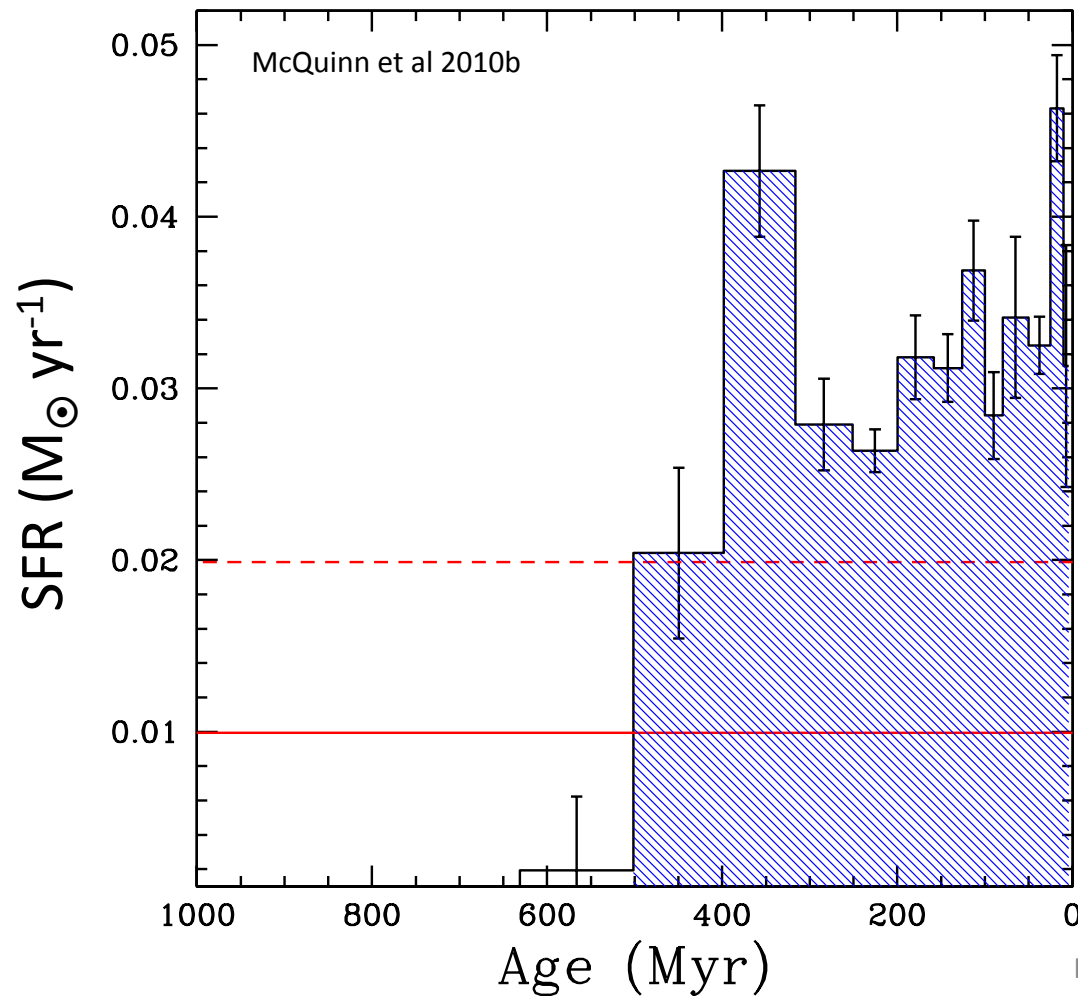
NGC 4068: HST



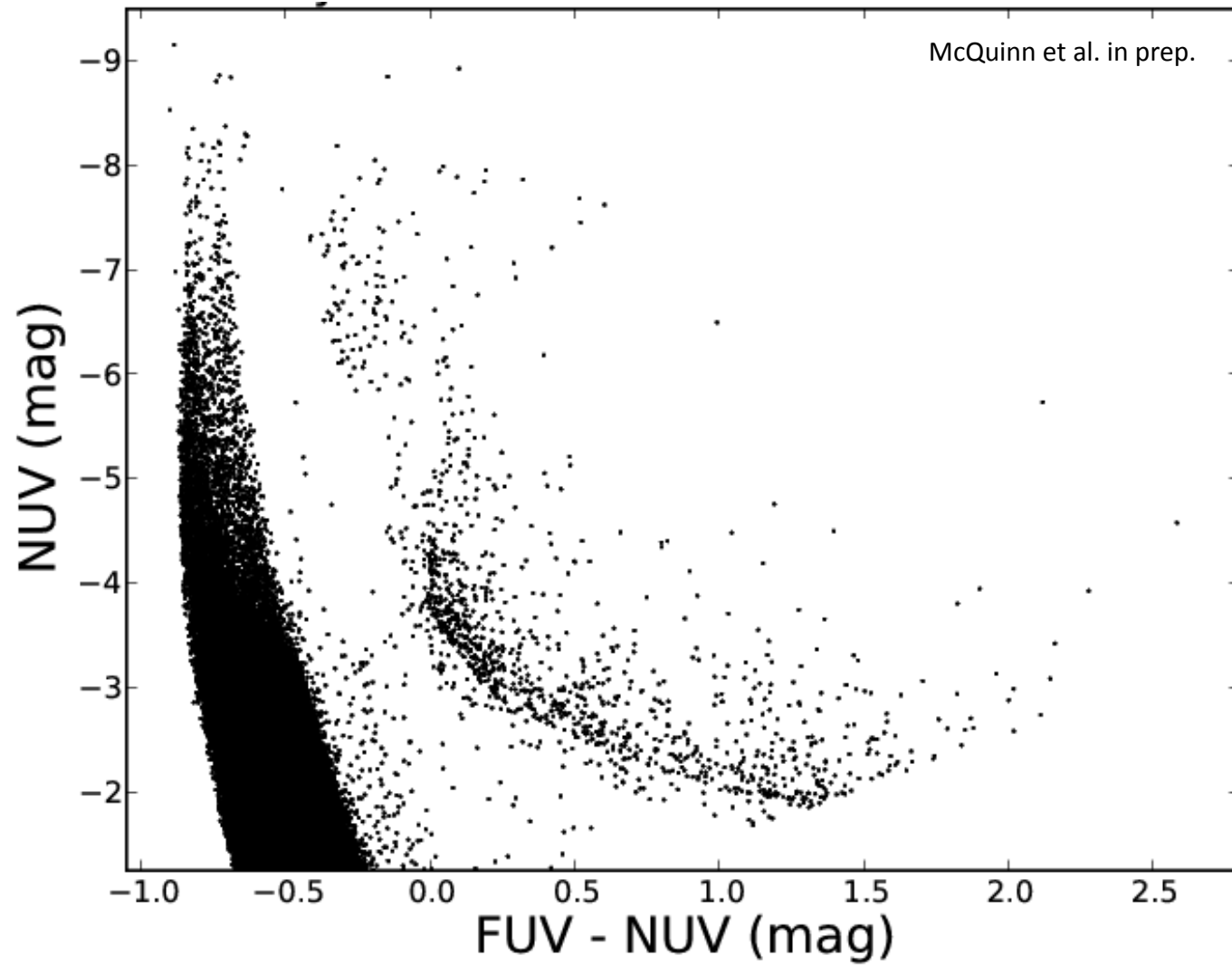
Optical CMDs



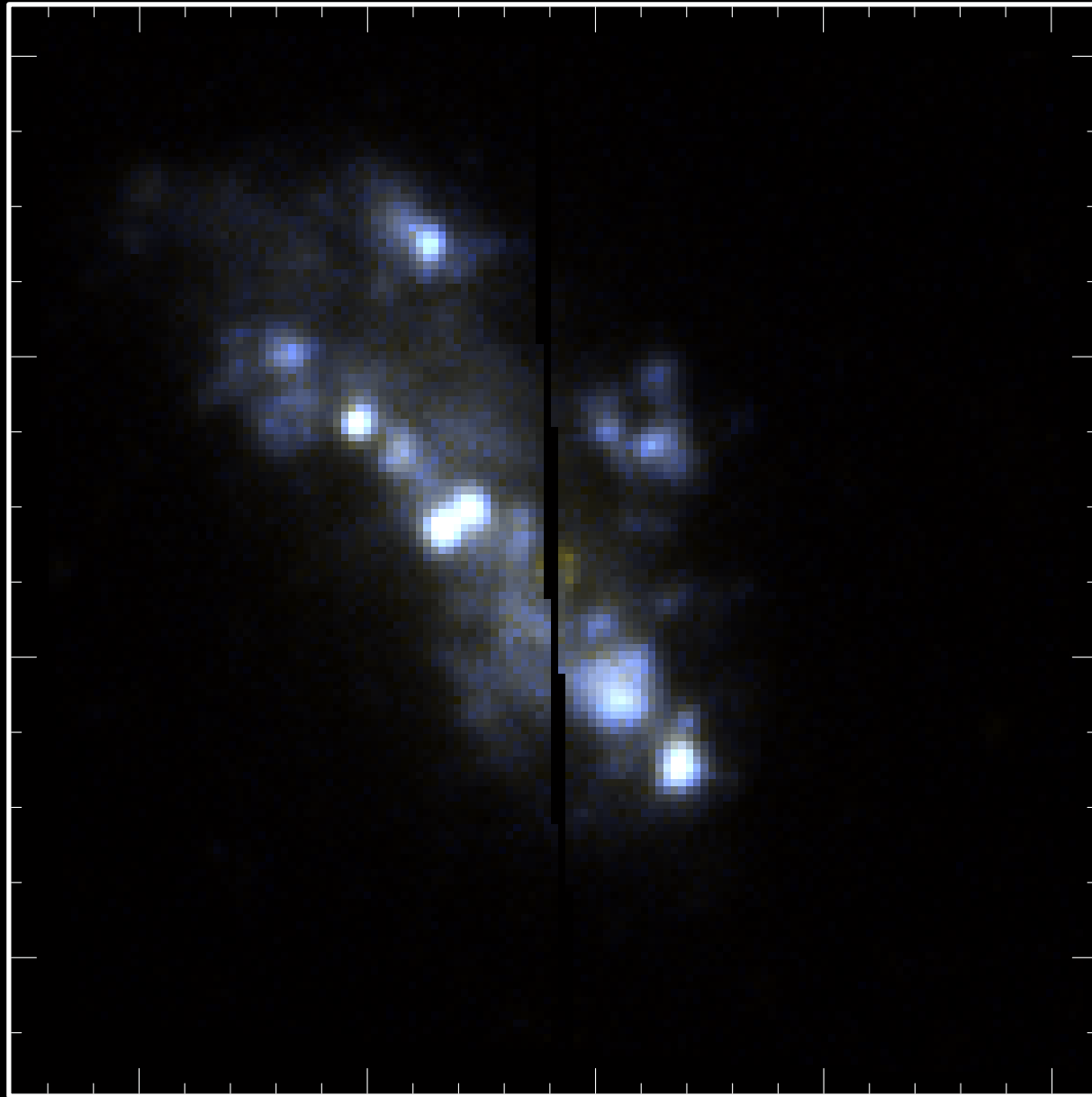
Star Formation Rate... as a function of time



Equivalent UV CMD

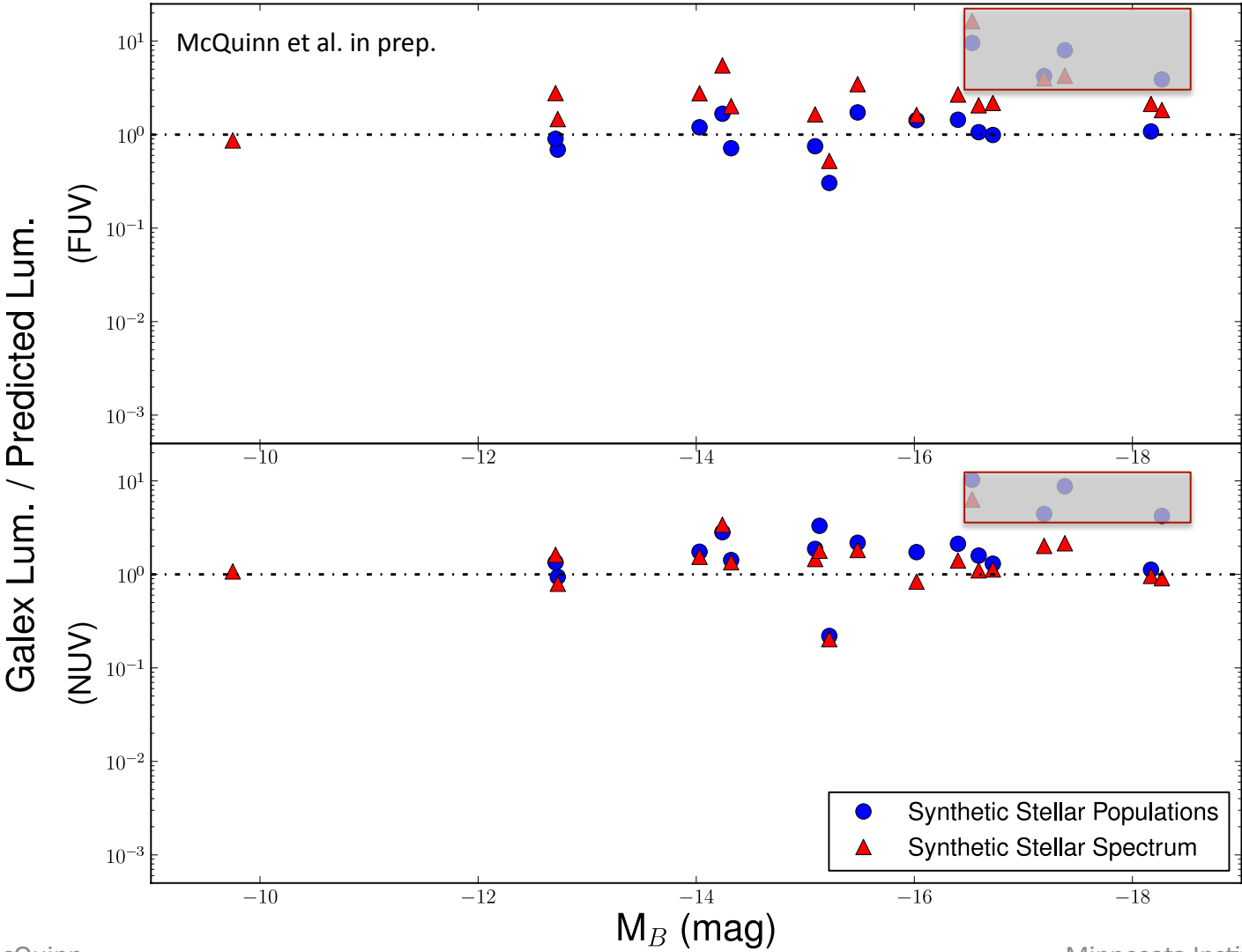


NGC 4068: GALEX

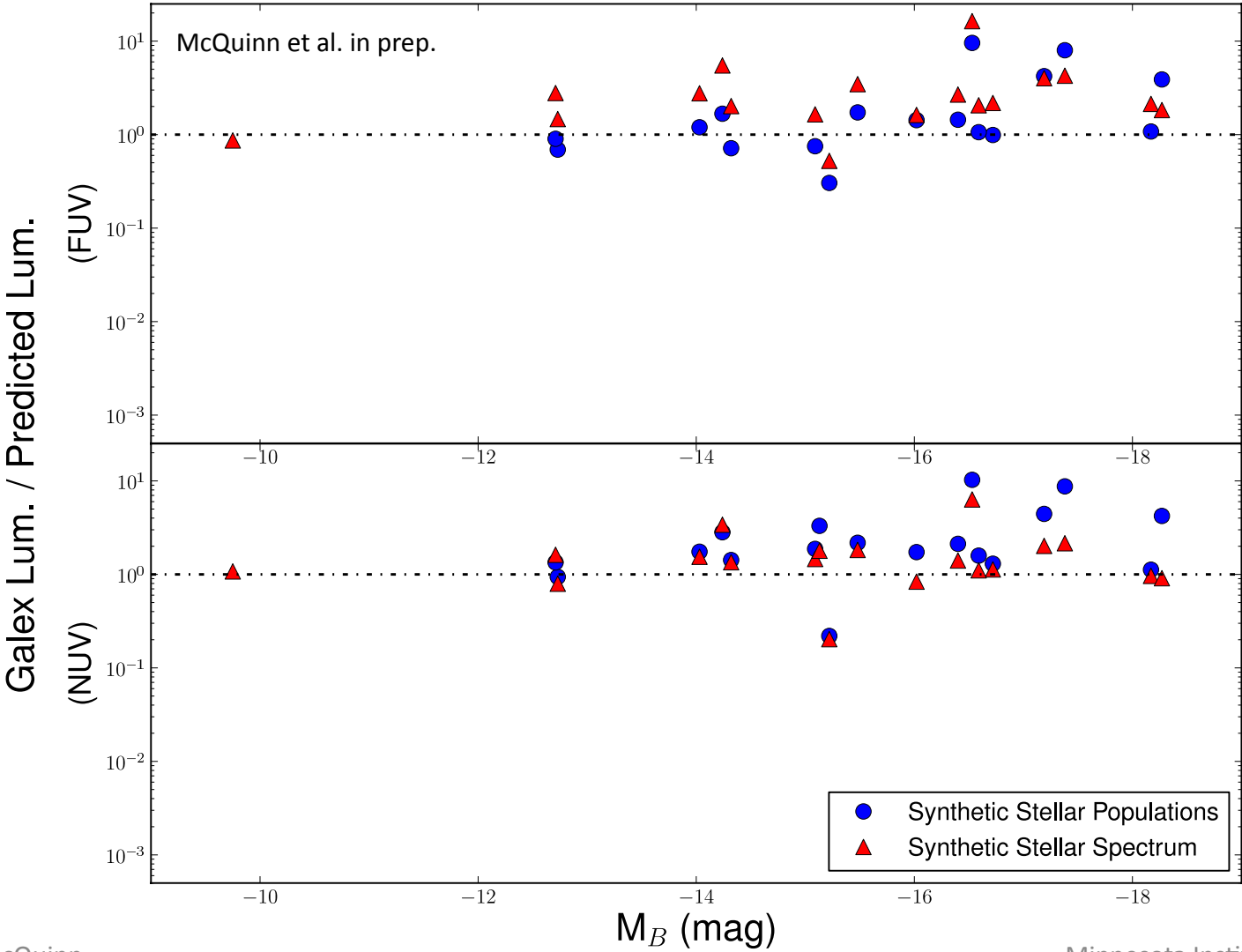


Right Ascension (J2000)

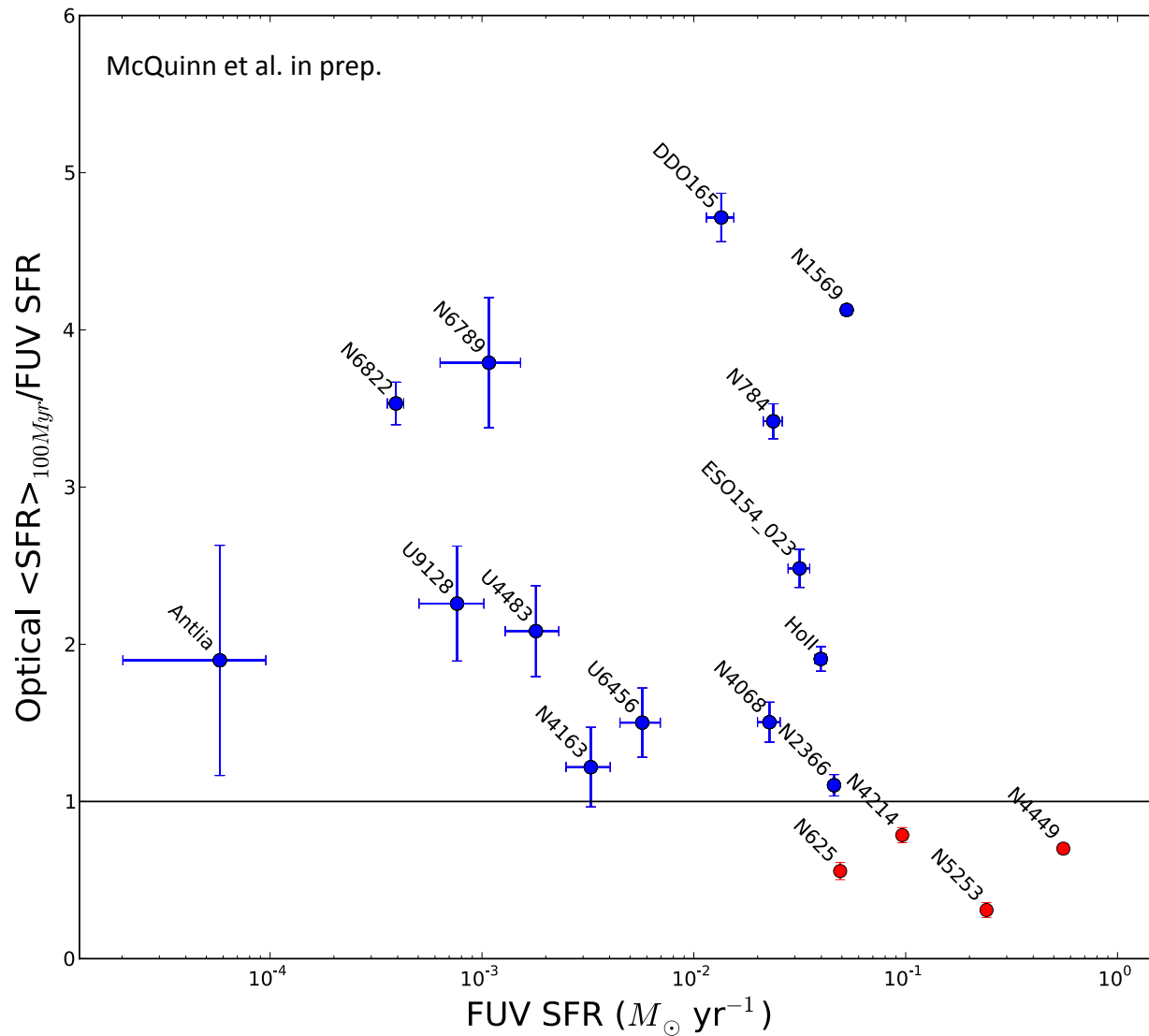
Can we connect Optical and UV fluxes?



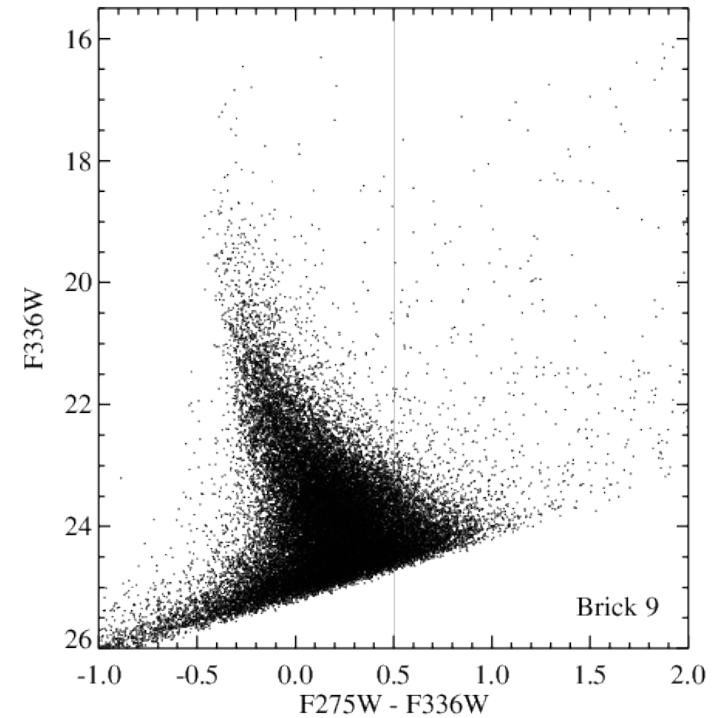
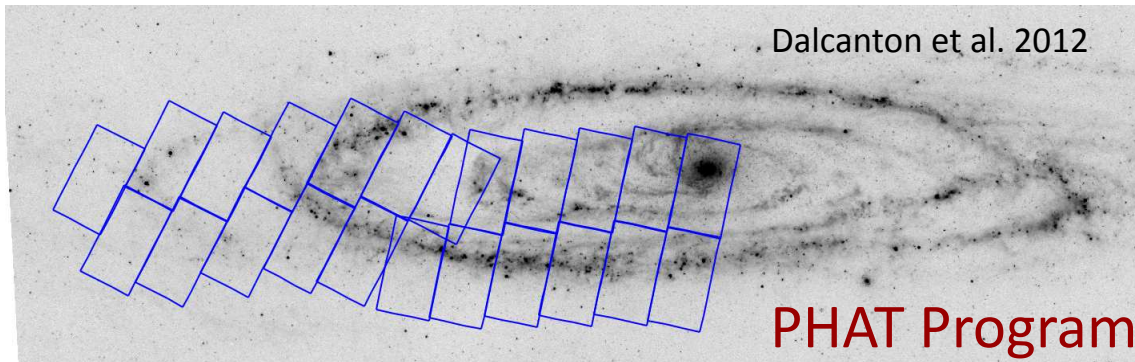
Can we connect Optical and UV fluxes?



Mismatch between SFRs

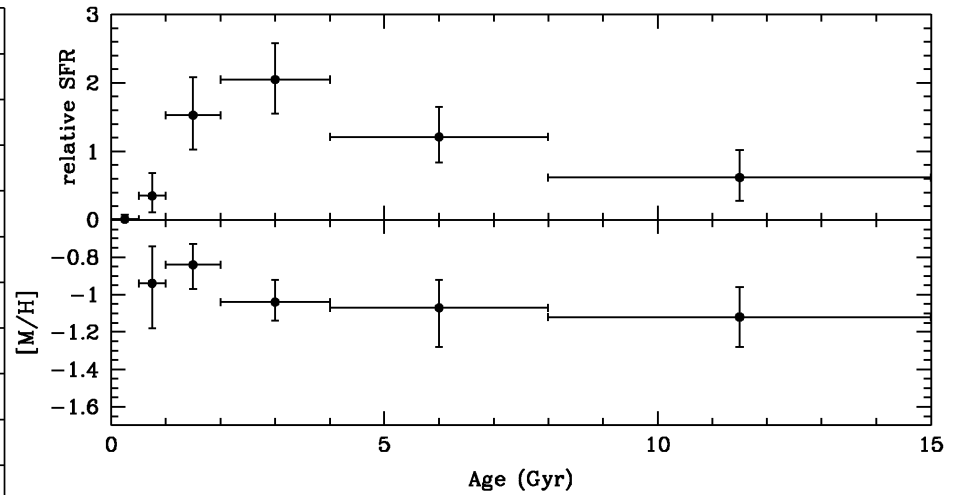
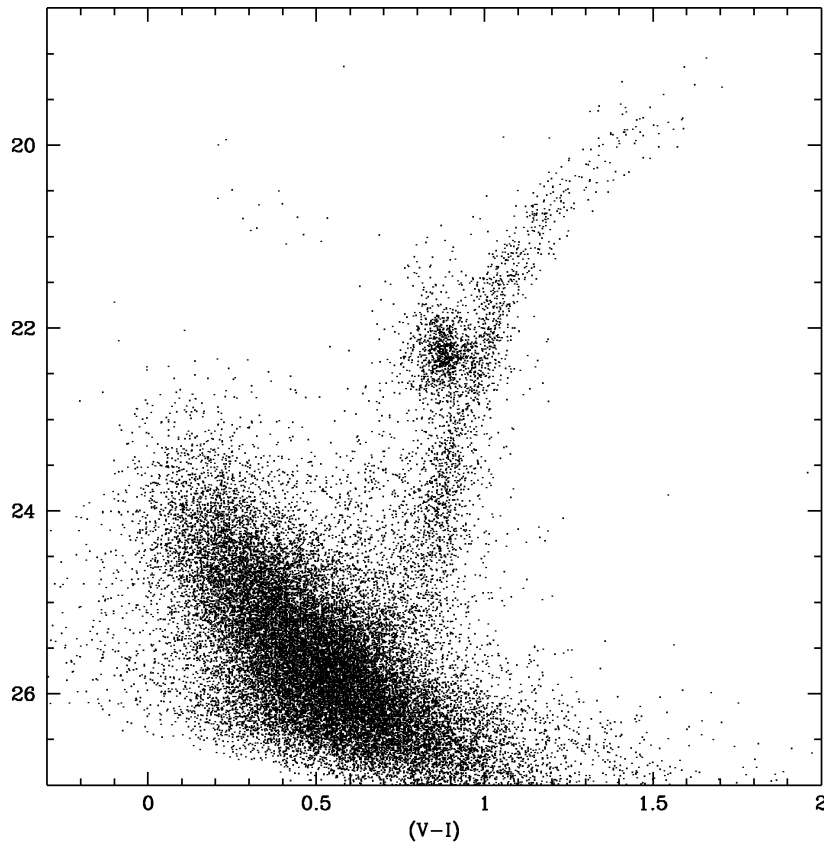


UV Resolved Stellar Populations

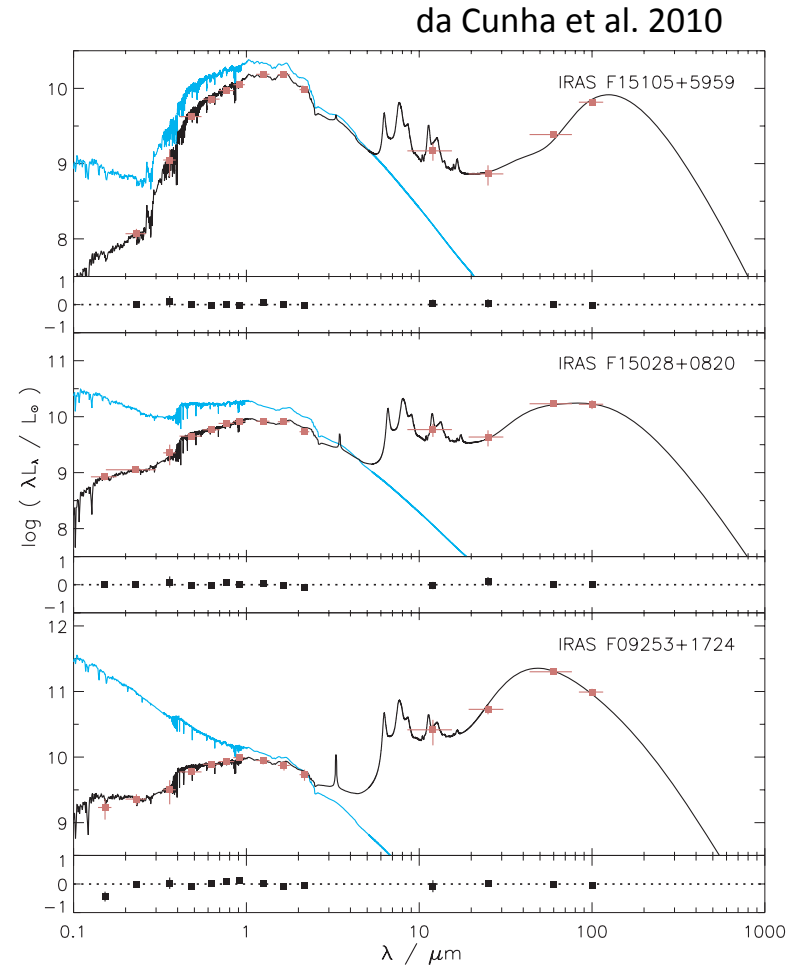
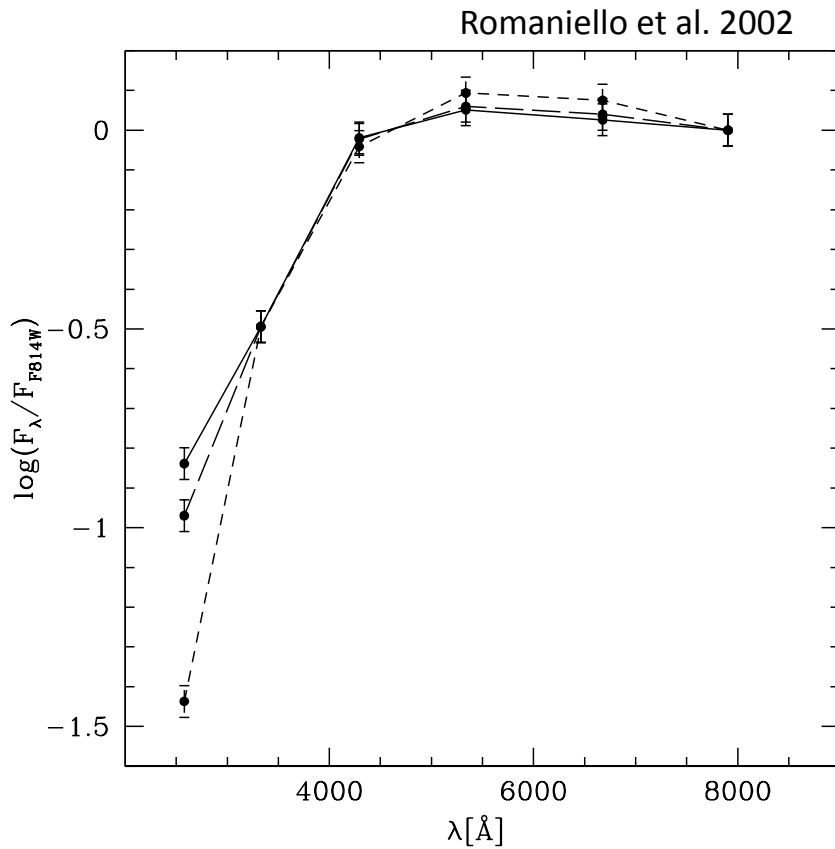


Chemical Enrichment Histories

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