Stellar Populations in the Cosmological Context STScI May Symposium (2010)



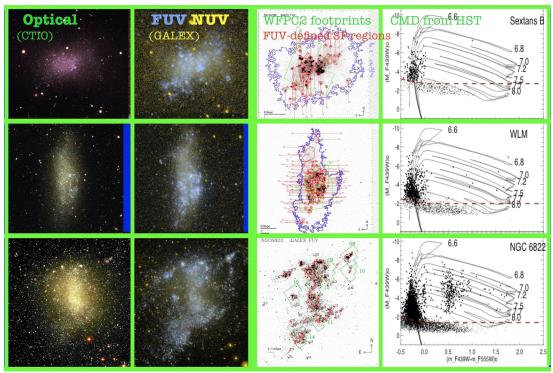
## Young Stellar Populations in the Local Group: a treasury HST and GALEX study.

## Luciana Bianchi (JHU)

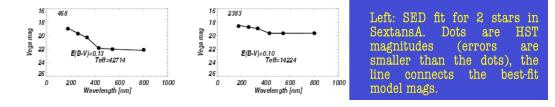
## http://dolomiti.pha.jhu.edu

Co-authors: B. Efremova (JHU), YB Kang (Chungnam NU, KR), P.Hodge (U Wa), P.Massey (Lowell), K.Olsen (KPNO)

Wide-field far-UV and near-UV GALEX imaging of Local Group galaxies affords a global, deep census and characterization of their recent star-formation sites, across a wide variety of environmental conditions. The resolved stellar constituents of selected star-forming sites are studied with HST multi-band imaging (Bianchi's treasury program 11079). The HST results provide the key for the interpretation of GALEX data covering the whole extent of the Local Group galaxies, and of measurements available for hundreds of nearby galaxies beyond the Local Group, shedding new light on the process of star formation in differing conditions, and on the interplay between star formation and interstellar dust.



Three galaxies of the sample



We acknowledge support from HST grant GO-11079 and from GALEX