

Instituto de Astronomía
Universidad Nacional Autónoma de México
Sede Ensenada, Baja California, México

Seminario

Miércoles, 25 de Abril de 2012

12:00 hrs, Auditorio IA-Ensenada

Giuseppe Gavazzi

(Universita' di Milano-Bicocca)

“H α 3: AN H α IMAGING SURVEY OF 21 CM SELECTED GALAXIES FROM ALFALFA IN THE LOCAL AND COMA SUPERCLUSTERS.”

H α 3 (H α follow-up of ALFALFA)
An H α imaging survey of 21 cm selected galaxies from ALFALFA
in the Local & Coma superclusters



G. Gavazzi (Milano Bicocca),
E. Galardo (Milano Bicocca),
F. Grossetti (Milano Bicocca),
G. Savorgnan (Milano Bicocca),
M. Fossati (Milano Bicocca),
M. Fumagalli (UCSC),
A. Boselli (LAM),
S. Fabello (MPA)

L. Gutierrez (UNAM)
H.H. Toledo (UNAM)

& The ALFALFA collaboration

San Pedro Martir (Mx) (2006 - 2012) Arecibo-ALFALFA (2005 - 2007)
narrow-band Imaging.

Ensenada, April 25, 2012

Using the 2.1m telescope at San Pedro Mártir (México) we carried out an H α imaging survey of nearly 1000 galaxies HI selected from ALFALFA in the local Supercluster (2006-2009), including the Virgo cluster and in the Coma supercluster (2011-2012). For all galaxies we measure the stellar mass (M_* from SDSS i-band photometry), the M_{HI} mass (from ALFALFA) and the current SFR (from the present H α survey). Using these quantities we study the dependence of the SSFR (specific star formation rate) on the HI_{gas} fraction and discuss the impact of the environment (traced by the HI deficiency parameter) on the star formation history of spiral galaxies.