5 major upgrades since 1991:

1: The ground screen
2: The Gregorian upgrade
3: Road 22 completed
4: Harris computers in the trash
5: ALFA

G. Gavazzi
Universita’ di Milano – Bicocca
ALFA
full coverage of the Virgo cluster
(800 deg$^2$)

- Detections or 1 mJy limits on 2000 VCC galaxies
- Tully-Fisher distances
- Search for intergalactic HI clouds
GOLD Mine

Galaxy On Line Database Milano Network

General data, photometry (continuum and lines), dynamics, light profiles, images, spectra, and spectral energy distributions (SED) for 3267 galaxies in the Coma Supercluster and in the Virgo cluster.

Professional Use

Educational Use

- Search by Name
- Search by Parameters
- Image Galleries

Virgo and Coma Galaxies Database

- Last Update: September 1, 2003
- Data for 3267 Galaxies
- 2582 images
- 144 integrated spectra
- 1774 SEDs
- 2724 downloadable FITS files
- 1238 light profiles

http://goldmine.mib.infn.it
Young stars

HI deficient

HI normal

$\propto \frac{L_{\text{H} \alpha}}{L_{\text{H}}}$

$b = \text{present} / \text{past SFR}$

Gavazzi et al. 2002
The total available gas regulates the global star formation
NON deficient galaxy

Hα extent = disk
deficient galaxy

\[ \text{truncated H} \alpha \text{ Emission} \]
Virgo follow-up

ALFA: HI survey (2005)
GALEX: UV survey (this year)
AstroF: FIR survey (2005)

Two complete samples:

E+dE
horizontal WFS strip at INT
127 galaxies (m<18)
B imaging

S+Irr
ISO sample
118 galaxies (m<18)
E+dE: horizontal WFS strip

VLT: velocity dispersion
NIR imaging
XMM: 10 fields
ISO sample

- Sub-mm
- Hα imaging
- HI Arecibo
- Visible imag. (Megacam?)
- Optical spectr.
Cayatte et al. (1990)

VIRGO HI
The Virgo cluster

G. Gavazzi
Universita’ di Milano – Bicocca