

Name of research institute or organization:

Istituto di Radioastronomia - CNR
Sezione di Firenze

Title of project:

TIRGO

Project leader and team:

Prof. Gianni Tofani

Project description:

The observations proceeded as usual by using the near-IR camera ARNICA, the near-IR photometer FIRT and the mid-IR camera TIRCAM2.

In February 2002 a new instrument was tested at the telescope. It is based on a cryogenic heterodyne receiver for 809 GHz developed in collaboration with the University of Canterbury and RAL (UK).

Key words

infrared astronomy, infrared instrumentation

Collaborating partners/networks:

Several Italian institutions are collaborating with us in the development of new instruments: among the others, the Turin Astronomical Observatory and two institutes of the CNR located in Rome, IAS and IFSI.

Scientific publications and public outreach 2002:

Buat, V., Boselli, A., Gavazzi, G., Bonfanti, C., "*Star formation and dust extinction in nearby star forming and starburst galaxies*" 2002, AA, **393**, 801.

Busso, M.; Tosti, G.; Persi, P.; Ferrari-Toniolo, M.; Ciprini, S.; Corcione, L.; Gasparoni, F.; Dabalà, M. "*The IRAIT Project*" 2002, Publications of the Astronomical Society of Australia, Volume **19**, Issue 3, pp. 306-312.

Hunt, L, Giovanardi, C. Helou G., "*Hot dust in normal star-forming galaxies: JHKL' photometry of the ISO Key Project Sample*" 2002, A&A **394**, 873.

Mannucci, F., Masetti, N.; Pian, E.; Ranfagni, P.; Covino, S.; Israel, G.L. "*Near-infrared observations of GRB020322 at TIRGO*" GCN 1309 1.

Pierini, D., Gavazzi, G., Franzetti, P., Scodreggio, M., and Boselli, A. "*1.65 micron (H-band) surface photometry of galaxies. VIII: the near-IR k-space at z=0*" 2002, MNRAS, **332**, 422.

Pierini, D., "*New clues to the evolution of dwarf early-type galaxies*" 2002, MNRAS, **330**, 997.

Richichi, A.; Calamai, G.; Stecklum, B. "*New binary stars discovered by lunar occultations. VI.*" 2002, A&A **382**, 178.

M. Scodreggio, G. Gavazzi, P. Franzetti, A. Boselli, S. Zibetti, D. Pierini "*1.65 micron (H-band) surface photometry of galaxies. IX: photometric and structural properties of galaxies*" 2002, A&A, **384**, 812.

S. Zibetti, G. Gavazzi, M. Scodreggio, P. Franzetti, A. Boselli "*1.65 micron H-band Surface Photometry of Galaxies. X: Structural and Dynamical Properties of Elliptical Galaxies*, 2002, ApJ, **579**, 261.

Address:

On January 1, 2002, the institute has changed its name in:
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