



INAf

ISTITUTO NAZIONALE DI ASTRONOMIA
NATIONAL INSTITUTE FOR ASTROPHYSICS

IASF Milano: a Small-Medium Institute

where Presidents are likely to be (scientifically) born



Scientific Goals

- Study of astronomical objects as physics laboratories (e.g. extreme conditions)
- Study of astronomical objects to describe how the Universe content evolved and to probe fundamental laws of physics (e.g. general relativity)

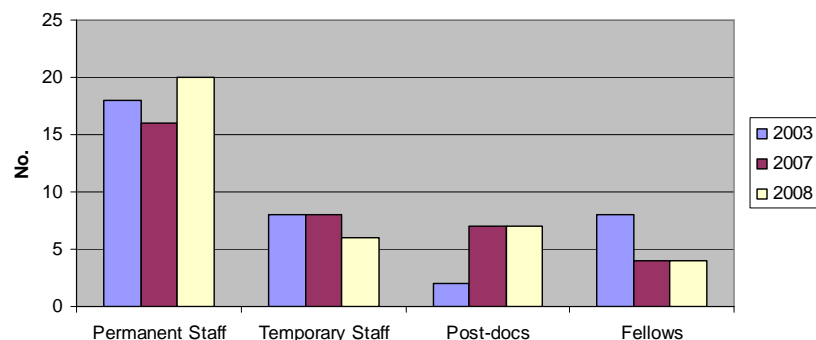
pursued through

- Observations from ground and space
- Technological development projects
- Design and construction of instrumentation

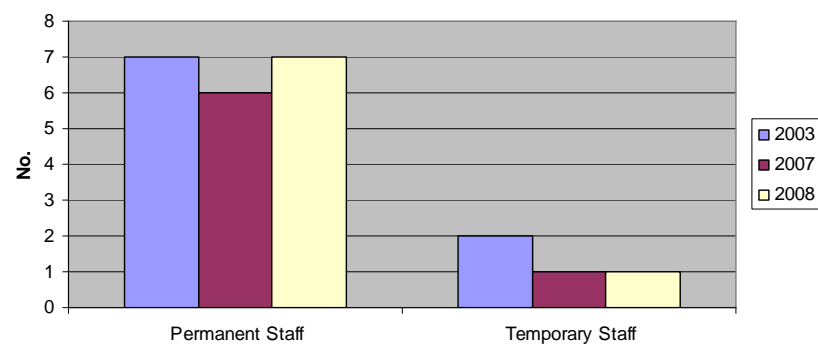


Manpower

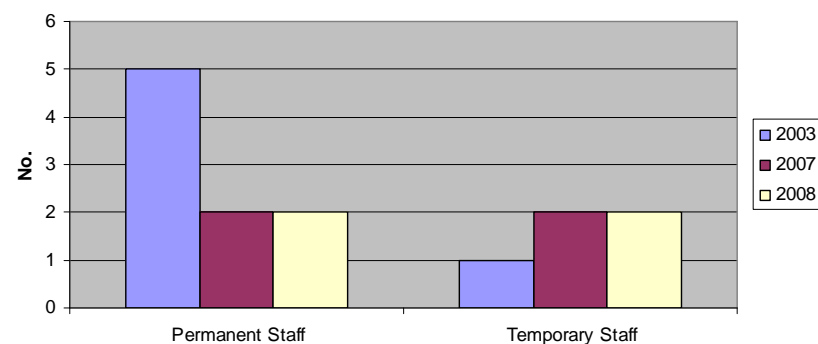
Research Personnel evolution



Technical Personnel evolution



Administrative Personnel evolution



Financing

- Global funding level substantially constant during the last years
- Large discrepancies between space projects and ground-based projects
- Insufficient funding of detector developments

ALLOCATION OF OBSERVING TIME (on-going programs)

| Instrument | No. of proposals | Allocated time |
|-------------|------------------|----------------|
| Effelsberg | 1 | 150 hrs |
| IRAM | 1 | 16 hrs |
| Spitzer | 1 | 3.1 hrs |
| VLT Sinfoni | 1 | 303 hrs |
| VLT VIMOS | 2 | 744 hrs |
| HST | 1 | 1 orbit |
| REM | 1 | 100 hrs |

ALLOCATION OF OBSERVING TIME (on-going programs)

| Instrument | No. of proposals | Allocated time |
|------------|------------------|----------------|
| XMM | 19 | 1.7 Msec |
| Chandra | 1 | 40 ksec |
| Swift | 3 | 100 ksec |
| RXTE | 1 | 10 ksec |
| Suzaku | 3 | 170 ksec |
| IINTEGRAL | 15 | 26.6 Msec |
| Agile | 4 programs | |

INSTRUMENTATION

- Planck LFI: delivered
- VLT/X-Shooter: Europe acceptance on-going
- VLT/SPHERE: Preliminary Design review passed
- WSO-UV: Phase B1
- Simbol-X: Phase A

Long Range Projects

ESA Cosmic Vision

- EDGE (X-rays): unsuccessful
- GRI (Gamma-Ray Imager): unsuccessful
- SPACE (all-sky redshift survey): still competing

ESO E-ELT

- No involvement up to now

ANSWERS TO RECENT CALLS FOR PROPOSAL

- ASI technological call: 4 proposals
- ASI Mission Of Opportunity call: 1 proposal
- MUR call (with Universities): 3 proposals
- INAF call: 4 proposals
- ASI Optical/IR Data Analysis call: 1 proposal
- ASI High Energy New Missions: 2 proposals
- ASI unsolicited: 1 proposal

Total financial request: 1.6 M€

- For the first time since 2000, in 2007 the number of refereed publications of the Institute was >60
- While in 2000-2003 the average number of publications per research affiliate was 1.5, in 2007 was 1.9

GUIDELINES

- Stabilize the administrative staff
- Consolidate and develop the mechanical workshop activities
- Capitalize on the collaboration with Milan University following Planck launch
- Find a proper framework for the development of the detector and associated electronics R&D
- Keep the cosmological survey group in the mainstream of the field
- Watch for long range opportunities in high energy astrophysics
- Work toward unifying IASF Milano and Brera Observatory