IFIC

- IFIC: “Instituto de Física Corpuscular”, a joint venture of two Institutions:
  - UVEG Universitat de València
  - CSIC, Spanish Research Council
- Founded in 1950, one of the pioneer Institute in Experimental Particle Physics in Spain
- 200 people (64 PhD. students, 37 posdocs, 56 scientific staff and 43 support).

IFIC

Research lines:

- Theory:
  - High Energy Physics Phenomenology
  - Q.C.D., Hadron Physics, ...
  - Astroparticle Physics and Cosmology
  - Theoretical Nuclear Physics
  - Mathematical and Theoretical High Energy Physics
- Experiment
  - Accelerator based Experimental High Energy Physics
  - Astroparticle and Neutrino Physics
  - Experimental Nuclear Physics
  - Medical Physics Applications
  - GRID and e-Science in Physics

Experimental Division

Particle and Astroparticle Physics

- LEP-Delphi
- LHC-ATLAS:
  - TiCal
  - SCT
  - GRID,TIER 2
- Accelerator Physics (ILC/CLIC)
- Detector R&D (ILC/CLIC/sLHC)
- BaBar and CDF
- Antares, Km3Net
- Neutrino Physics K2K, T2K, (Canfranc Laboratory, NEXT)

Nuclear Physics

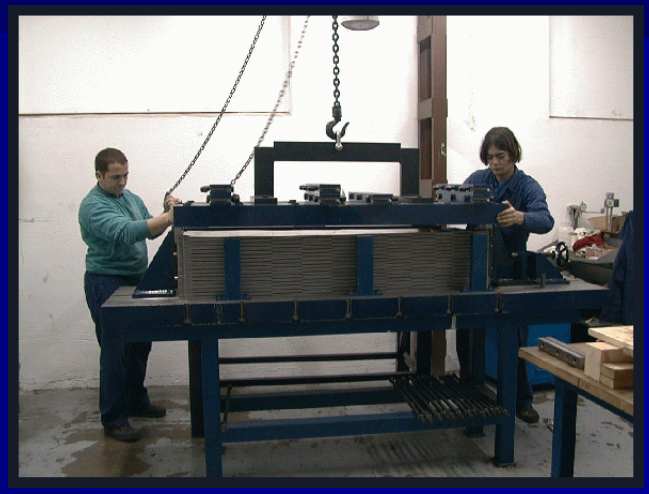
- nTOF
- Isolde (Lucrecia)
- FAIR
- Hades, TAPS
- Integral

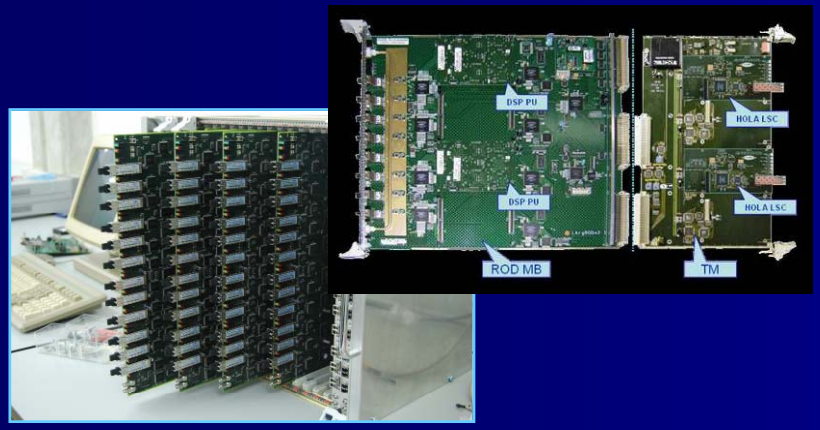
TRANSFER

- Imaging (PET, Compton ...)
- Nuclear Medicine
- IFIMED
- GRID-CSIC

IFIC AT ATLAS (TiCal)

Construction of 32 Extended Barrel modules (50 % of Tilecal EB)

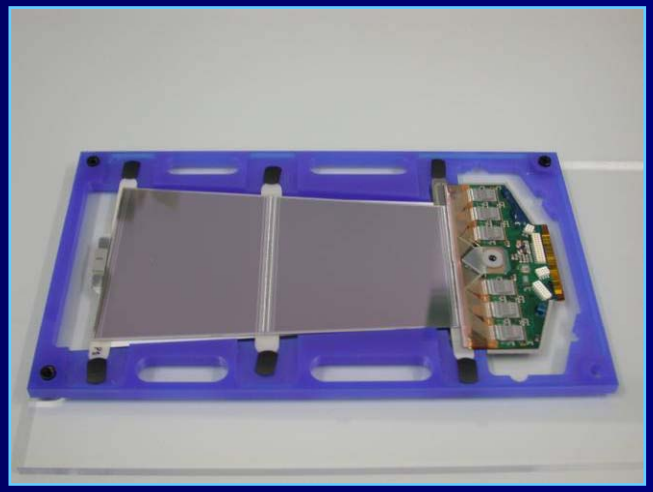




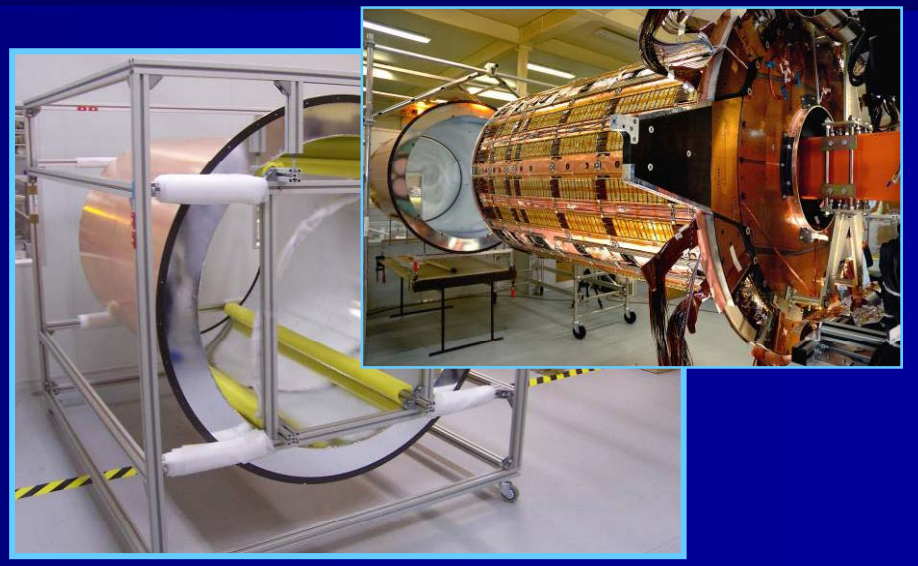
38 Pre-ROD and 38 ROD Cards

PM Test

IFIC AT ATLAS (SCT)



Assembling and characterization of 280 end-cap Modules (14% of the total end-cap modules)



Construction of the two end-cap Outer Thermal Enclosures

IFIC AT ATLAS (TIER-2)

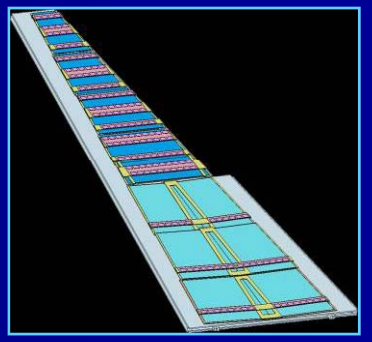
TIER 2 (50% of Spanish ATLAS TIER-2)
-200 TBytes Disc Storage (+200/year)
-600 CPU Cores (+300/year)
GRID-CSIC
-200 TBytes Disc Storage
-1200 CPU Cores

R&D (related with CERN)

ATLAS upgrade (Inner Tracker and TiCal):

Readout system for Si sensors

Hard-radiation sensors (RD50 coll.)



Design and module prototyping

R&D in future colliders:

CLIC

Beam monitoring systems