



Spanish National Research Council

The *Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC)* is the largest public multidisciplinary research organisation in Spain. It has a staff of more than 12.000 employees, including 3000 scientists and 4000 pre and postdoctoral researchers, working in 130 Institutes and centres distributed across Spain. Its annual budget is close to 900 M euros.

Physical Science and Technology Area

RESEARCH LINES IN PHYSICS	
Astrophysics and Space Sciences	ASTRO
Physical Technologies	TEC
Mathematics	MATH
Particle Physics, Astroparticles and Nuclear Physics	FPAN
Atomic and Molecular Physics	MOL
Optics	OPT
Complex Systems and Statistical Physics	QFISES
Nanoscience and Nanotechnology	NANO
Integrated Micro and Nano Systems	MICRO
Computing Sciences and Technologies	ICT



The fundamental mission of the CSIC's Physical Science and Technology Area is the advancement of science by addressing new challenges, ranging from the basic approach provided by models and theories in physics and mathematics, through to the experimental and technological perspective where it serves as a complement to engineering.

Relevant ongoing projects with international dimension

- ESA missions: XMM, Planck, Herschel, COROT, Integral, Solar missions.
- ESO observatories: ALMA, VLT
- CERN: LHC (ATLAS & CMS);
- ILC, CDF
- FAIR, SPIRAL-2
- ELT, CTA, KM3NET
- EGI

New initiatives on instrumentation and energy

- Cryogenic technology for space
- Hard radiation sensors for high multiplicity
- Optical fibers, microlenses, adaptive optics
- Biomed photonics & neural imaging
- Social robotics
- High efficiency photovoltaic panels
- Fuel cells