

The top half of the image features a blue-tinted collage. On the left, a large film reel is visible. On the right, a detailed circuit board with various components and traces is shown. The text 'INTRODUCING LIP' is centered over this collage in a large, white, sans-serif font.

INTRODUCING LIP

The bottom half of the image shows a large group of approximately 50 people, mostly men, standing in several rows on the steps of a modern building. They are dressed in casual to business-casual attire. The building has large windows and some palm trees are visible in the background. The entire image has a blue tint.

Lisboa, March 2021

LIP was created in 1986, in the context of the Portuguese accession to CERN, the first international scientific organization Portugal became a member of

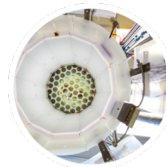


WHAT LIP IS

The reference institution for experimental particle physics in Portugal and the Portuguese reference partner of CERN as well as other international scientific infrastructures



Experimental particle and astroparticle physics



Development of new instruments and methods



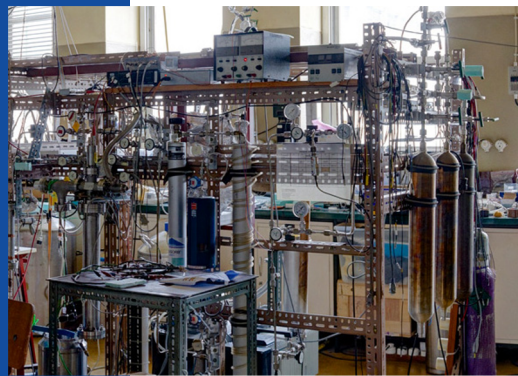
Scientific computing



Knowledge transfer, education and outreach

| WHERE LIP IS

A nation-wide laboratory
working in close
collaboration with the
local universities



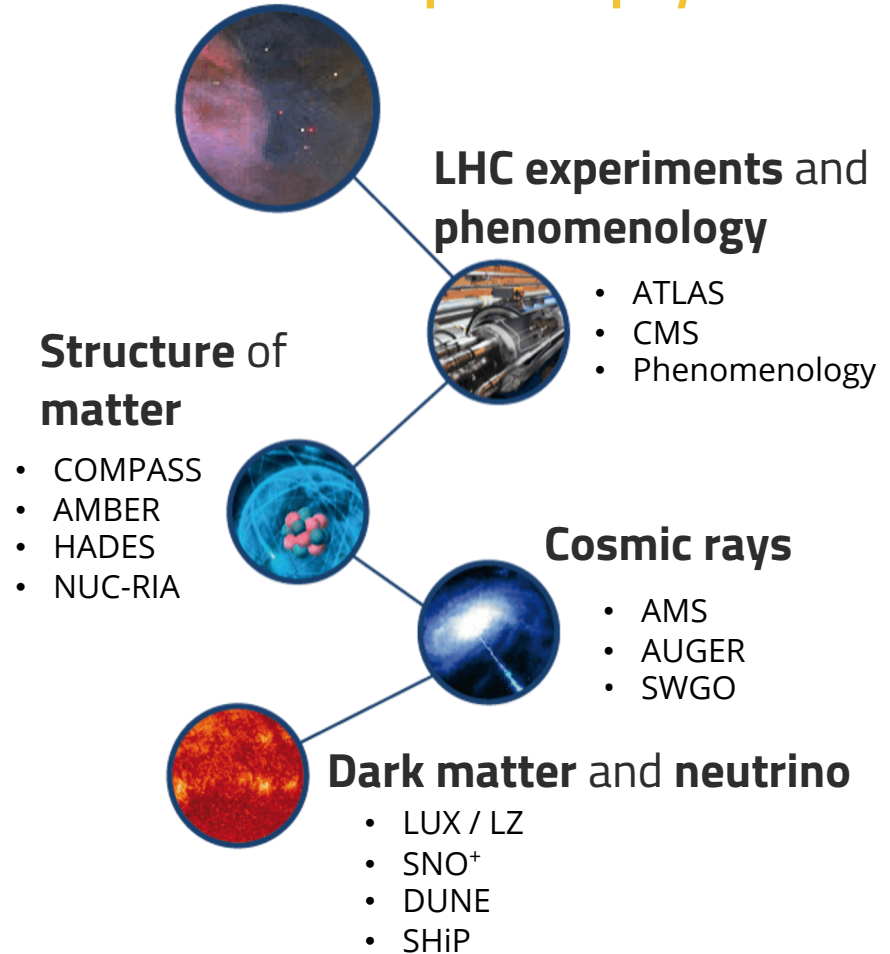
Research Areas

**Experimental particle and
astroparticle physics**

**Development of new
instruments and methods**

Scientific computing

**Experimental particle and
astroparticle physics**

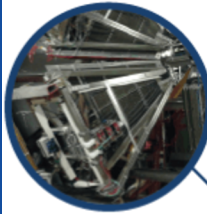


Research Areas

Experimental particle and
astroparticle physics

Development of new
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Scientific computing

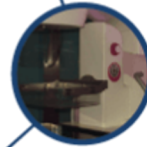


Development of new
instruments and methods



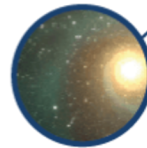
**Detectors for Particle and
nuclear physics**

- Neutron detectors
- RPC R&D
- Gaseous detectors R&D



Health applications

- PET Imaging
- Radiotherapy control
- Proton Therapy
- Dosimetry



**Radiation environment studies
and applications for space**

- SpaceRad
- A-HEAD

Research Areas

**Experimental particle and
astroparticle physics**

**Development of new
instruments and methods**

Scientific computing



Scientific Computing

- R&D in information technologies
GRID CLOUD HPC
- National and international infrastructures and consortia
- Support to the scientific community





**Mechanical
Workshop
LIP - Coimbra**



**LOMAC
LIP - Lisboa**

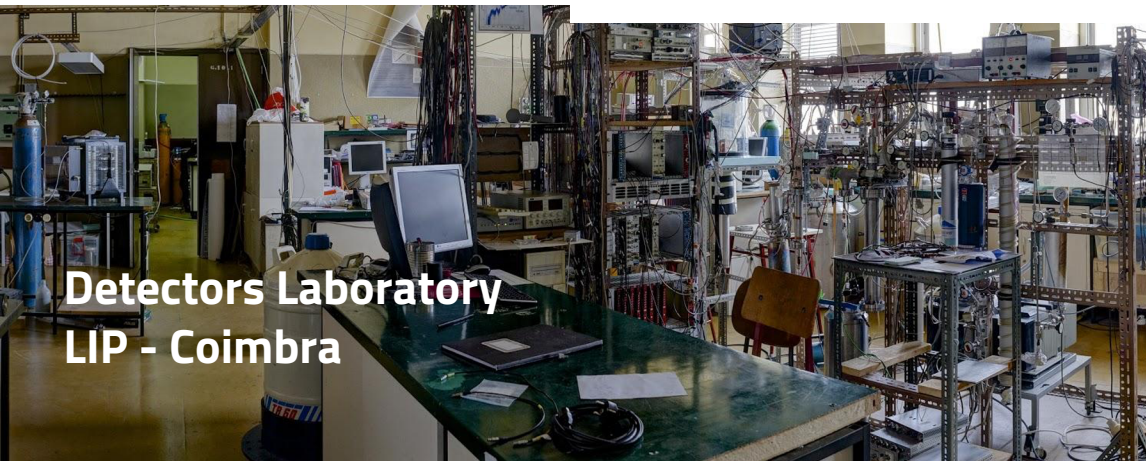


Tagus-LIP



NCG - Lisboa

RESEARCH INFRASTRUCTURES



**Detectors Laboratory
LIP - Coimbra**



**e-CRLab
LIP - Lisboa**

Advanced Training



- **LIP hosts over 50 PhD and master students**
- **LIP coordinates two PhD programmes and is part of several European networks**
- **Flagship program: LIP Summer Internship Programme**
- **Schools and workshops**

Education and Outreach

ECO activities are part of our social role and fundamental for the recognition of an institution's work



- **CERN's Portuguese Language Teachers Programmes**
- **International Masterclasses in Particle Physics**
- **Summer internships for high-school students**
- **LIP-EduLab, partnership with several schools**
- **Public sessions and Seminars in schools**
- **Close partner of Agência Ciência Viva and SPF**



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
partículas e tecnologia

Thanks!

**Discovery
through
science**

**Innovation
through
technology**

**Sharing
with
People**