



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
partículas e tecnologia

[LIP Summer Internships 2018]

Presentation of Summer Projects

LIP

Welcomes You



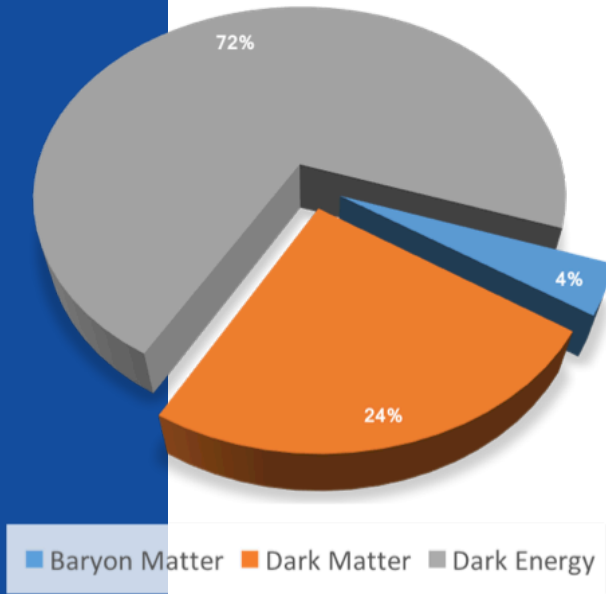
Coimbra, Lisboa, Minho

- ~ 200 members
- ~ 90 PhD
- ~ 75 students
- ~ 27 engineers, technicians
- 7 administrative staff

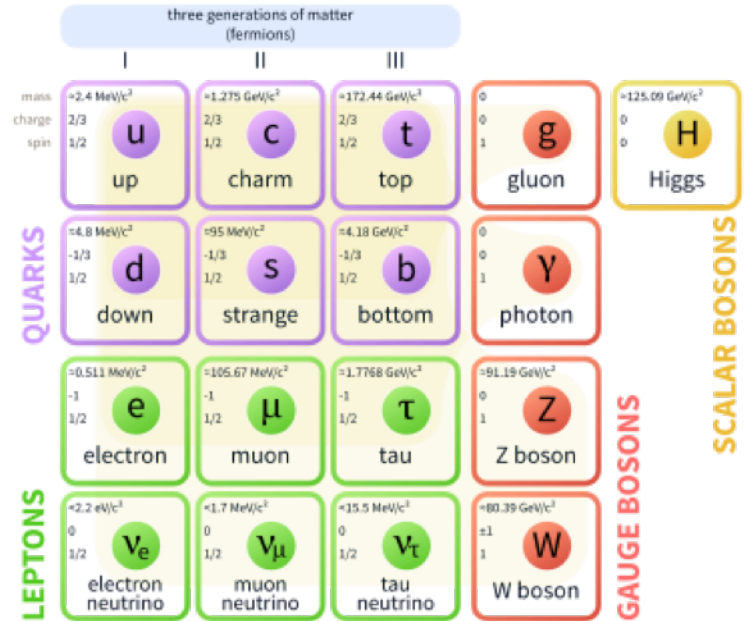


- **Experimental Particle Physics and Astrophysics**
- **Development of Instrumentation**
- **Scientific Computing**

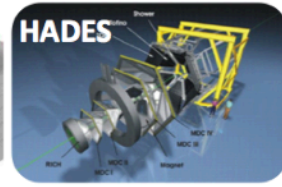
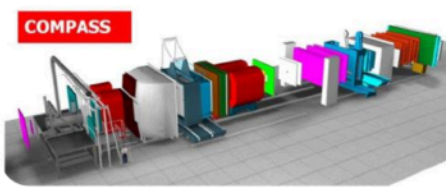
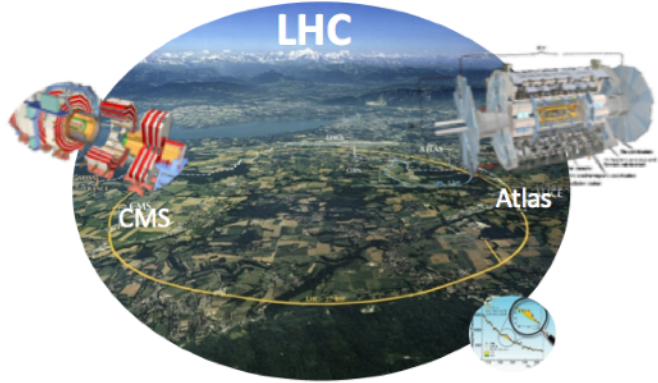
LIP: Particle Physics



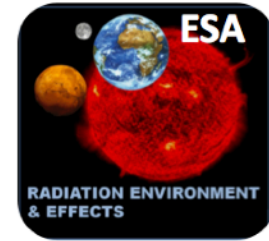
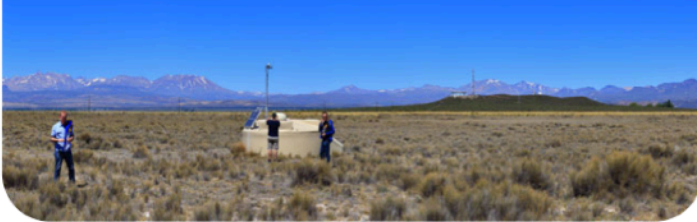
Standard Model of Elementary Particles



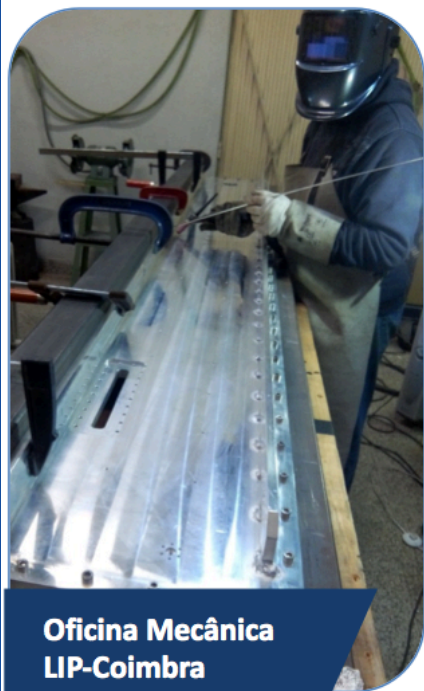
Detectors from the bottom of deep mines to outer space



The Pierre Auger Observatory



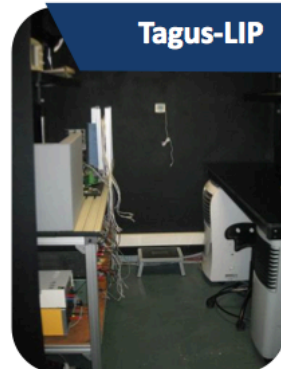
Research infrastructure



Oficina Mecânica
LIP-Coimbra



LOMAC



Tagus-LIP



E-CRLab

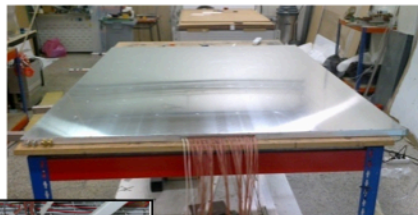


NCG - Lisboa

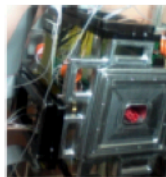


Laboratório de detectores
LIP-Coimbra

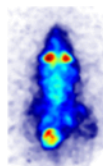
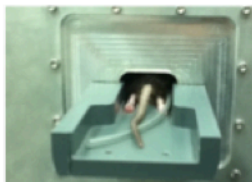
Detectores RPCs



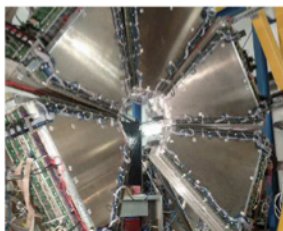
para a pampa,



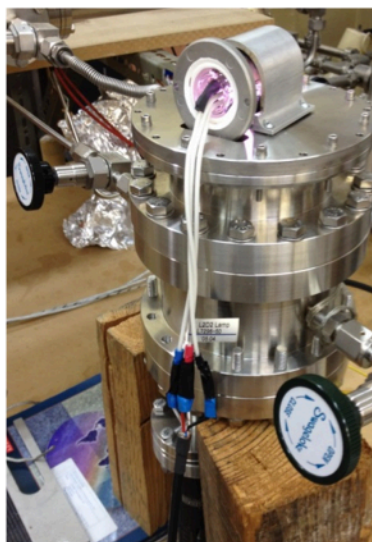
para PET animal e humano,



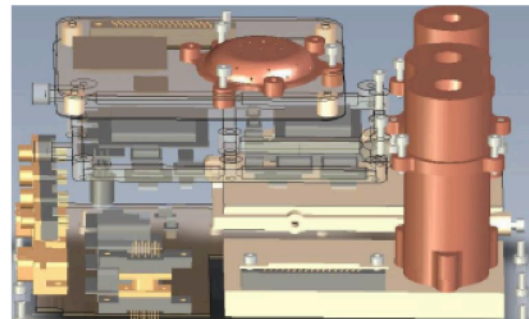
para a Física de partículas



Detectores Xenon



Detectores de radiação em missões espaciais



RADEM – Radiation hard electron monitor (LIP: desenho do detector de direcção)

Clear-PEM

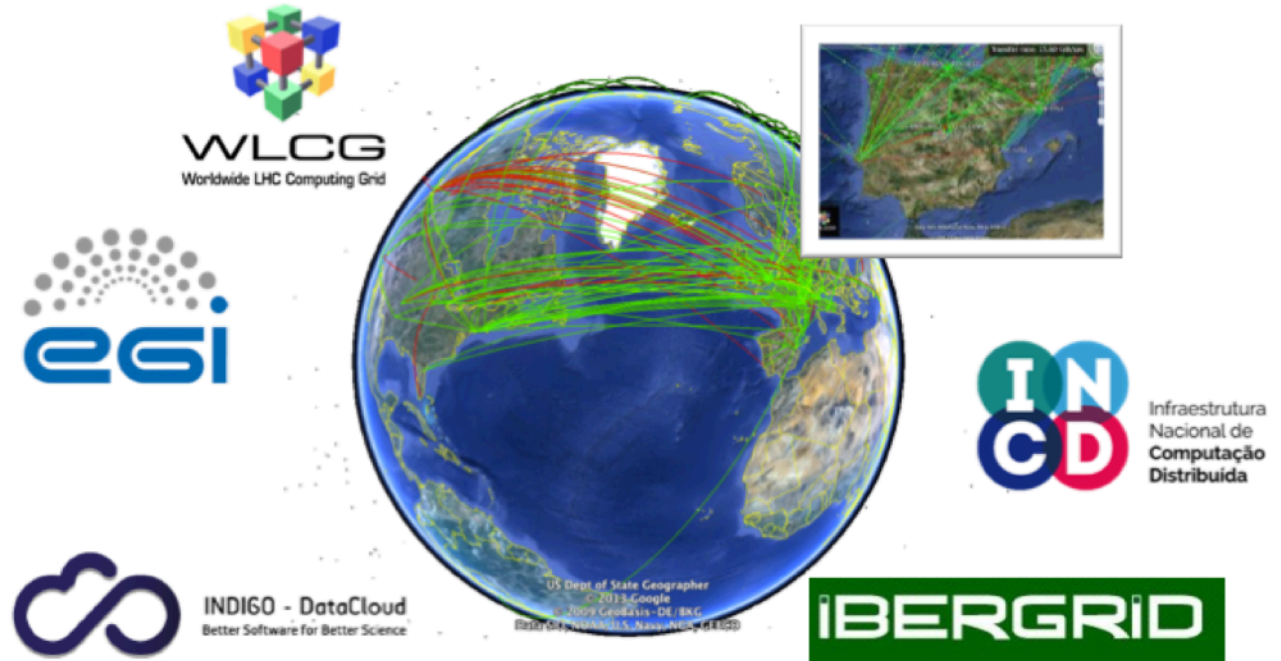


Electrónica digital



Scientific Computing

- Information & Technology R&D
- Participation in digital infrastructures and international consortia
- Support to scientific community



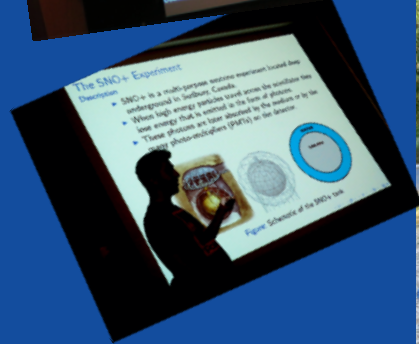
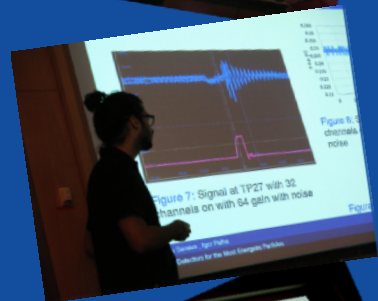
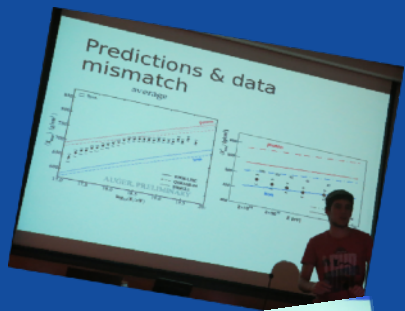
LIP Summer Student Program

Registration: 27/4-18/5
Internships: Jul - Sept
Tutorials: mid Jul
Workshop: early Sept

- *Students become collaborators in LIP's research teams*
- 1 week of introductory lectures + hands-on tutorials
- Integrate research projects from 2 weeks to 2 months
- 1 day long final workshop where each student present his/her work to fellow students and the LIP researchers
- Locations: Lisbon (3Is complex, IST, FCUL, TagusLIP), University of Coimbra, and University of Minho
- How to apply? Students select up to 5 projects in order of preference; to facilitate selection should share interests and past experience (academic, research, computing, electronics, etc)

www.lip.pt/summer-student-program

2017 in pictures !



ESTÁGIOS DE VERÃO NO LIP/2018

QUERES FAZER ALGO
DIFERENTE ESTE VERÃO ?

JUNTA-TE A NÓS, vem fazer física
em ambiente internacional

Física do LHC
Raios Cósmicos
Neutrinos e Matéria Escura
Estrutura da Matéria e Iões Pesados
Detectores e Instrumentação

Estágios de investigação para
estudantes de Física e Engenharia.

Duração entre duas semanas e dois meses.

1 de Julho a 15 de Setembro.

Inscrições abertas de
27 de Abril a 18 de Maio.



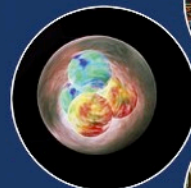
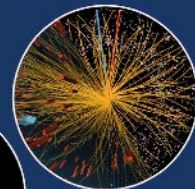
mais informações em:
www.lip.pt/estagios-de-verao



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
partex.lip.pt



LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
partex.lip.pt



Project Presentation Sessions

Projects grouped
in four themes

Be invited to attend
one or all sessions.

Do not hesitate
to ask your questions!

Physics at the LHC

Precision measurements and searches for physics beyond the Standard Model with data from the LHC experiments

IST: 17 April 5-7pm, LIP room; FCUL: 2 May 11-12am, room C8.5.26

Astroparticle Physics

Physics with cosmic rays, the elusive neutrinos and searches for dark matter

IST: 18 April 5-7pm, LIP room; FCUL: 2 May 1-2pm, room C8.5.26

Physics of ultra-relativistic hadronic matter

Exploring the structure of matter – from nucleons and nuclei to the plasma of quarks and gluons

IST: 19 April 5-7pm, LIP room; FCUL: 3 May 11-12am, room C8.5.26

Detectors & Instrumentation

Characterisation and development of (hardware and software) systems that facilitate scientific research.

IST: 16 April 5-7pm, LIP room; FCUL: 2 May 1-2pm, room C8.5.26

Universidade do Minho, 14 May 2pm, Amphitheater Physics Dept., Gualtar Campus