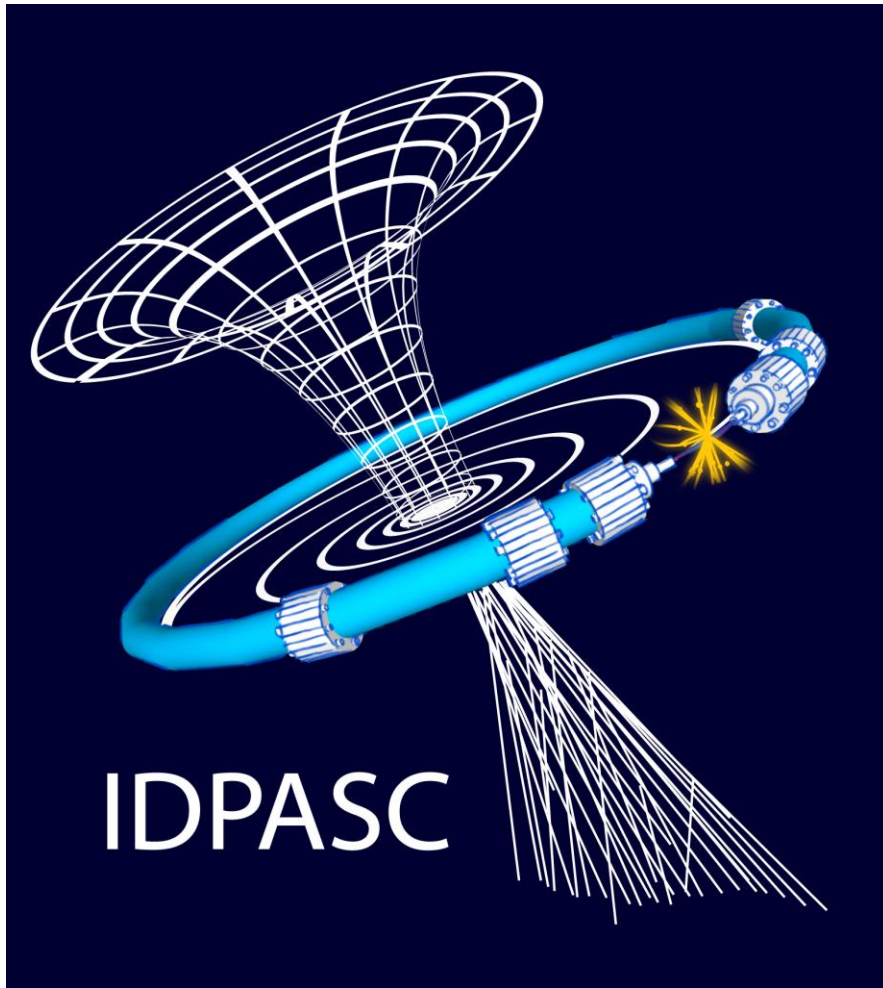




International Doctorate Network in Particle Physics, Astrophysics and Cosmology













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 **Organizational Structure**

Thursday, 25 October 2012

The IDPASC

-  Institutions
-  Researchers
-  Students
-  Physics Reporters
-  Statistics
-  Staff
-  Search
-  Contacts

The International Doctorate Network in Particle Physics, Astrophysics and Cosmology (IDPASC) is an interdisciplinary network whose purpose is to create new high-level experts in the fields of Particle Physics, Astrophysics and Cosmology.



Activities & Events

- Thesis
- Mobility

Courses (all)

- Physics at the LHC

Schools (all)

- IDPASC Neutrino School 2012
- Third IDPASC School 2013

Workshops (all)


- 1st IDPASC PhD Students Workshop
- New Worlds in Particle and Astroparticle Physics

Public Sessions (all)


- Higgs to be or not to be
- Dark Universe

Grants (all)


- Padova 2012
- FCT/IDPASC 2012




School / Mini-workshop
IDPASC Neutrino School/mini-workshop
Univ. Granada, 24 - 27 October 2012




Workshop
New Worlds in Particle and Astroparticle Physics
Lisbon, 20th to 21st December 2012





School 2013
Third IDPASC School
Santiago de Compostela, 21/01-02/02



Calendar

October 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27

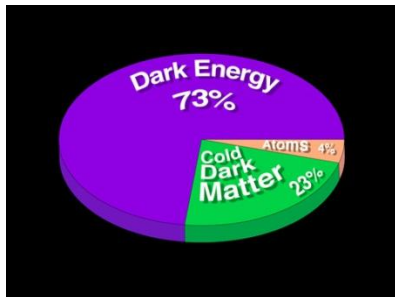
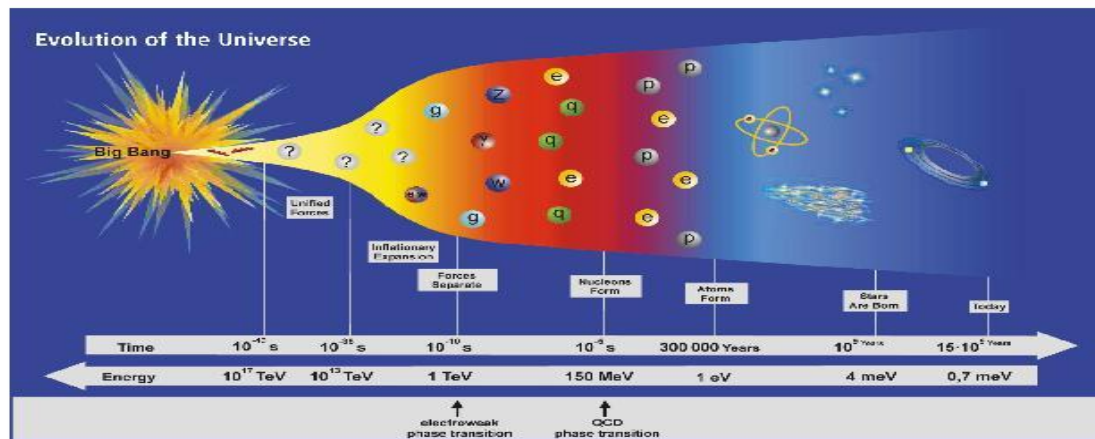
Particle Physics:

“Matter” and Interactions



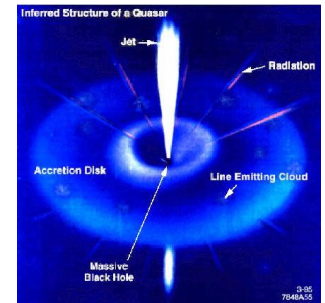
Astronomy/ astrophysics:

“Objects” in the sky



Cosmology:

Origin and evolution of the Universe

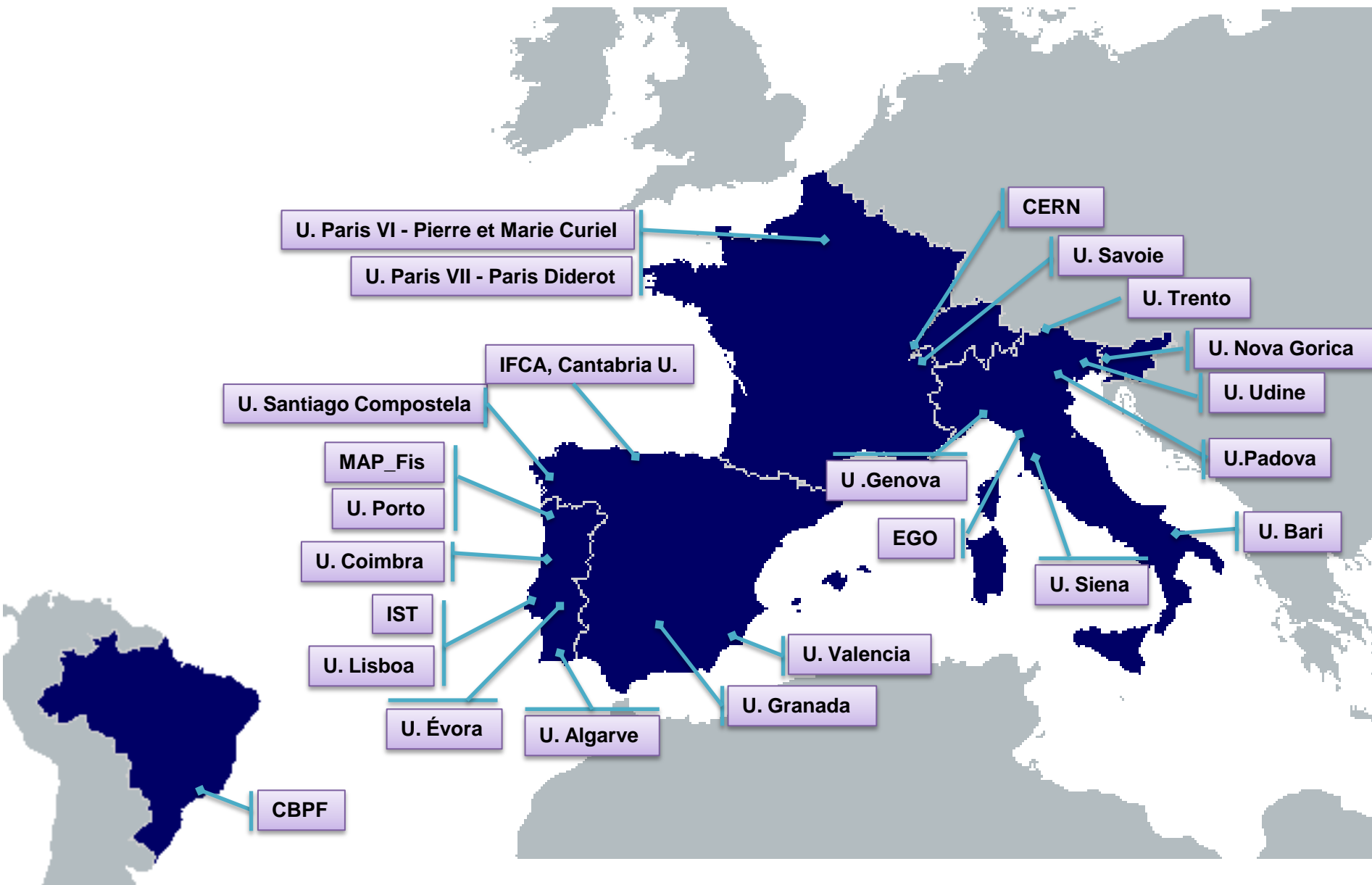


The network:

PhD Students: **115**

Researchers : **164**

countries of origin: **19**



Activities

- Schools and Workshops

- ✓ A general IDPASC school every year
(2 weeks: mornings lectures/afternoon exercises/exam at the end)
- ✓ Thematic schools

- Courses

- ✓ Specific courses via video-conference

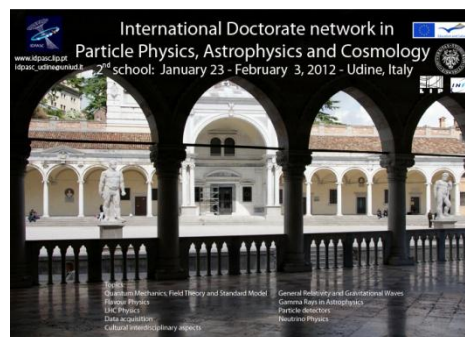
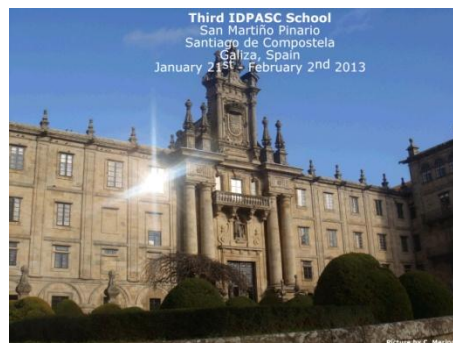
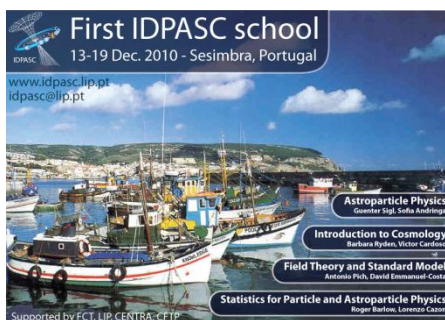
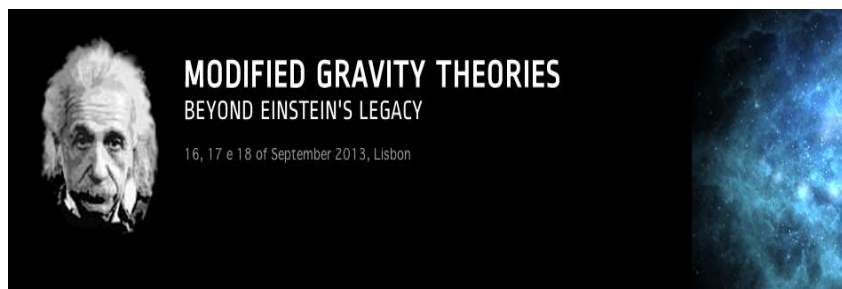
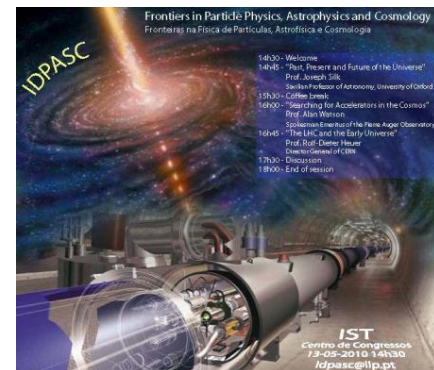
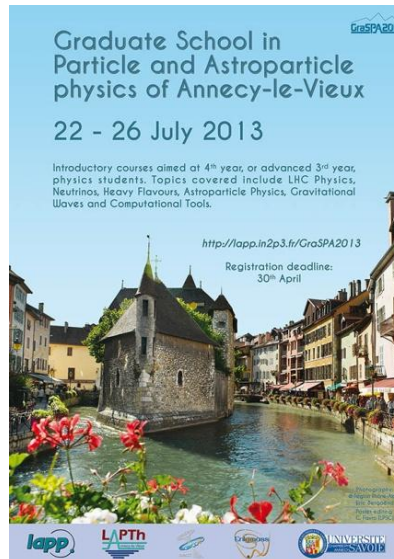
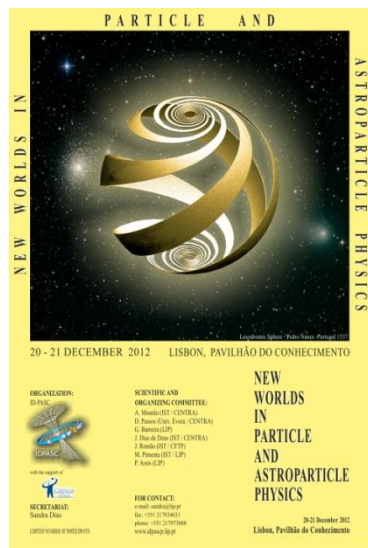
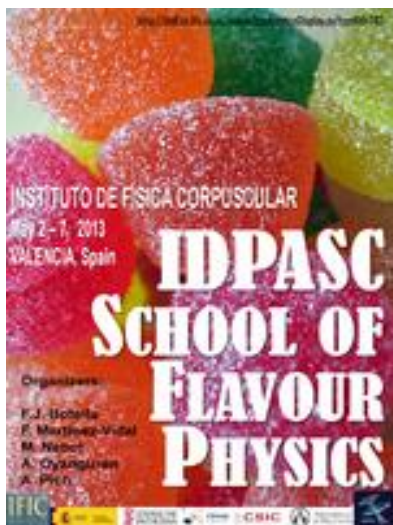
- Public sessions

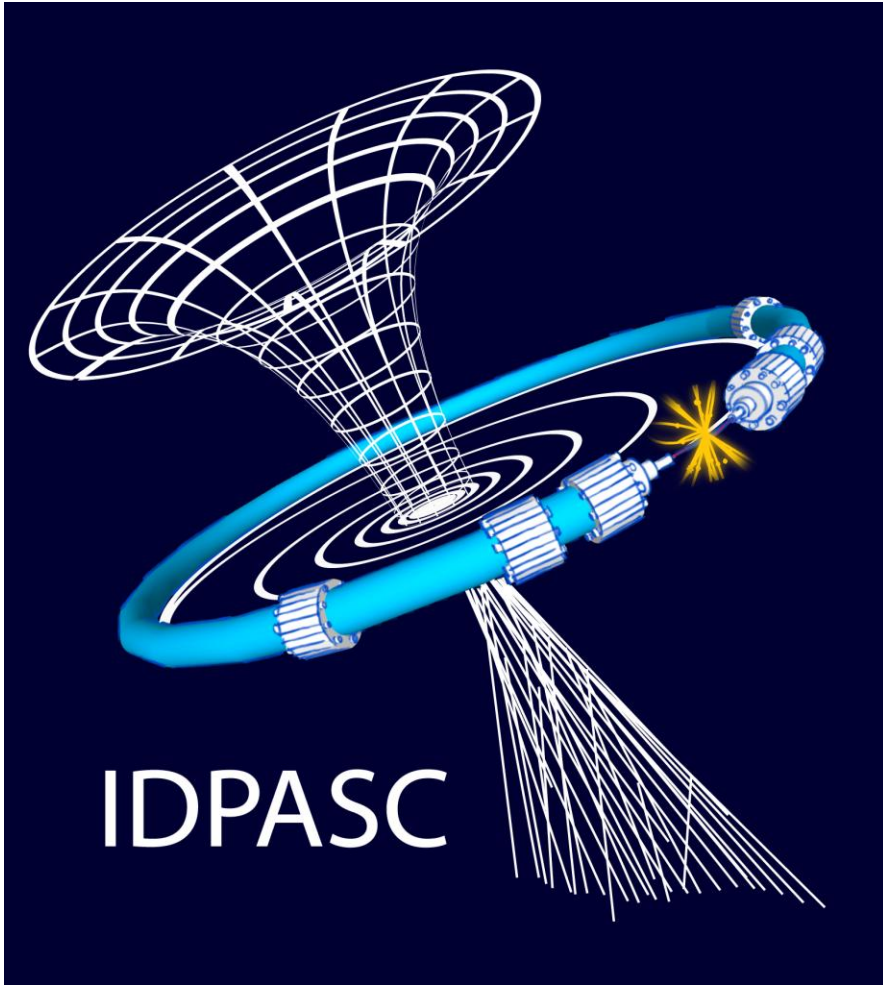
- ✓ General public (in particular last years high school students and teachers)

- Doctoral Scholarships

- ✓ 2010/2011/2012 FCT/IDPASC call – 21 grants
- 2014 FCT PhD program call – “IDPASC-Portugal”**
- EJD H2020 call - “IDPASC: instrumentation and technologies”

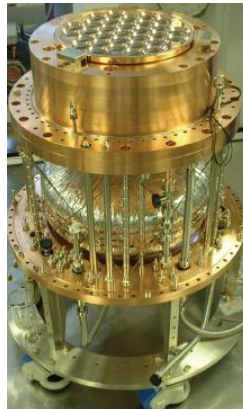
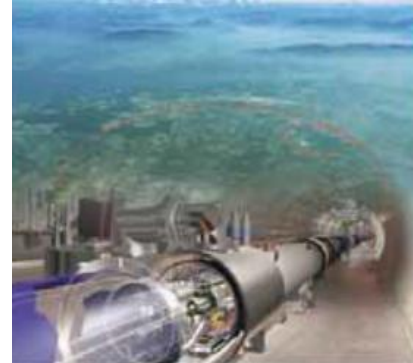
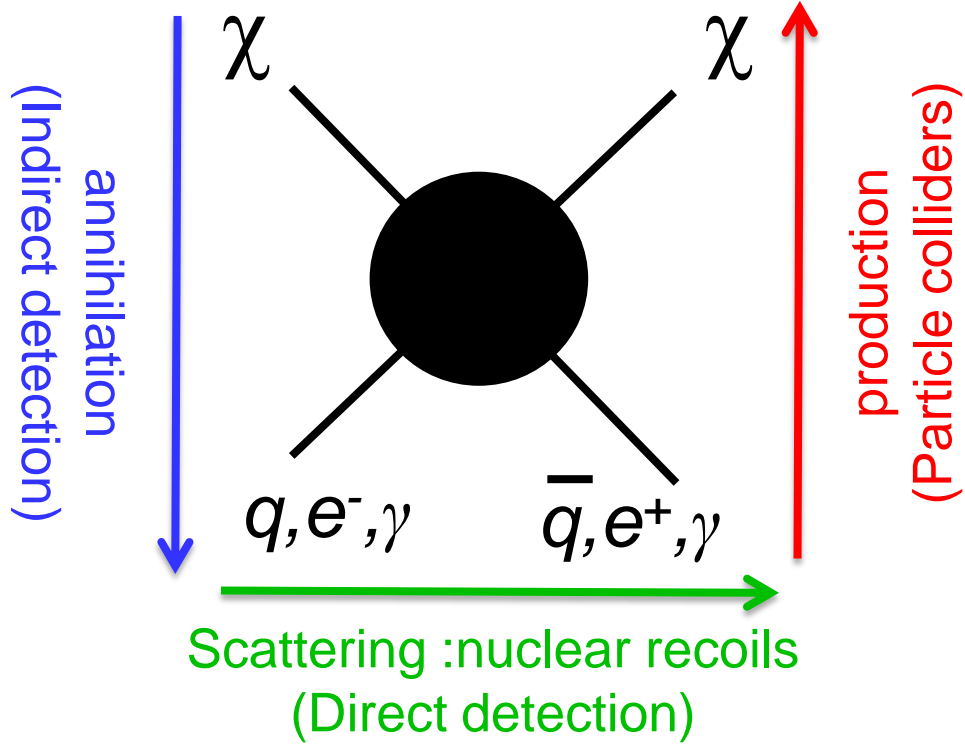
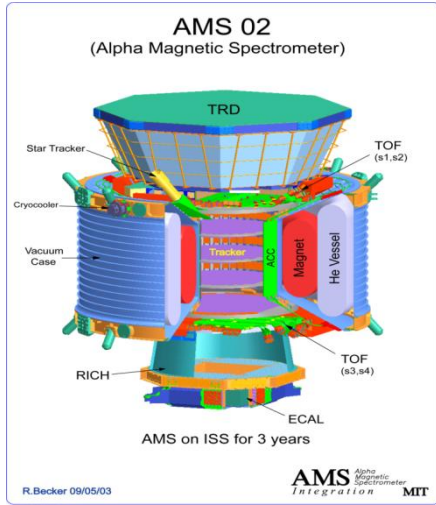
IDPASC Posters ...



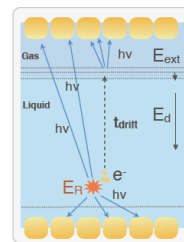


IDPASC

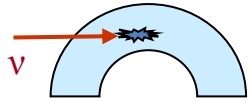
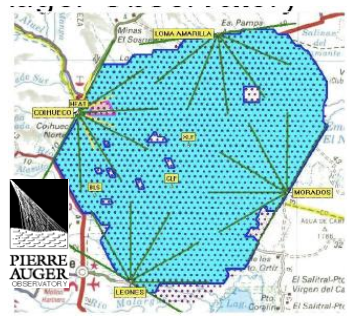
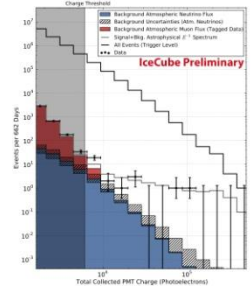
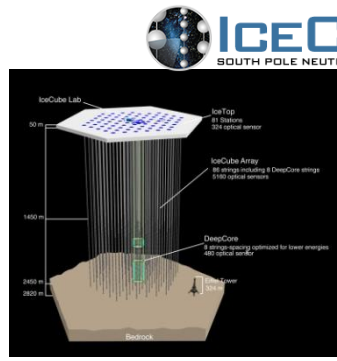
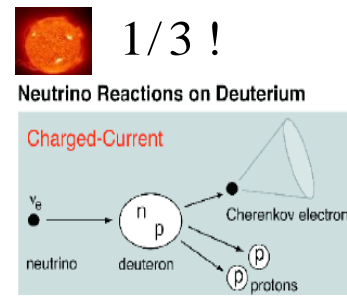
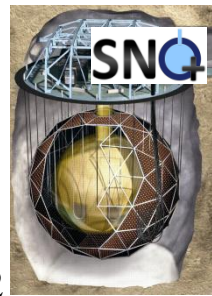
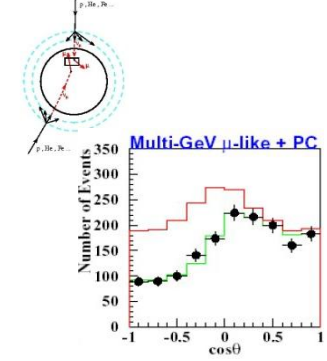
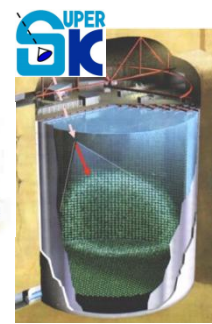
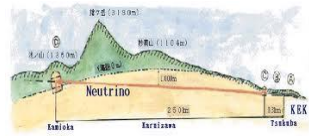
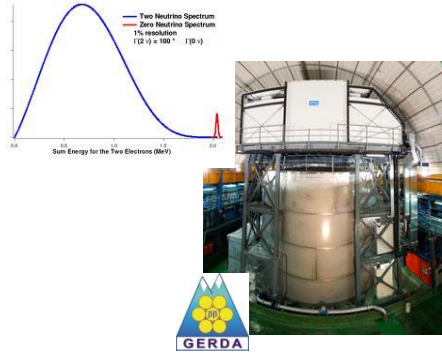
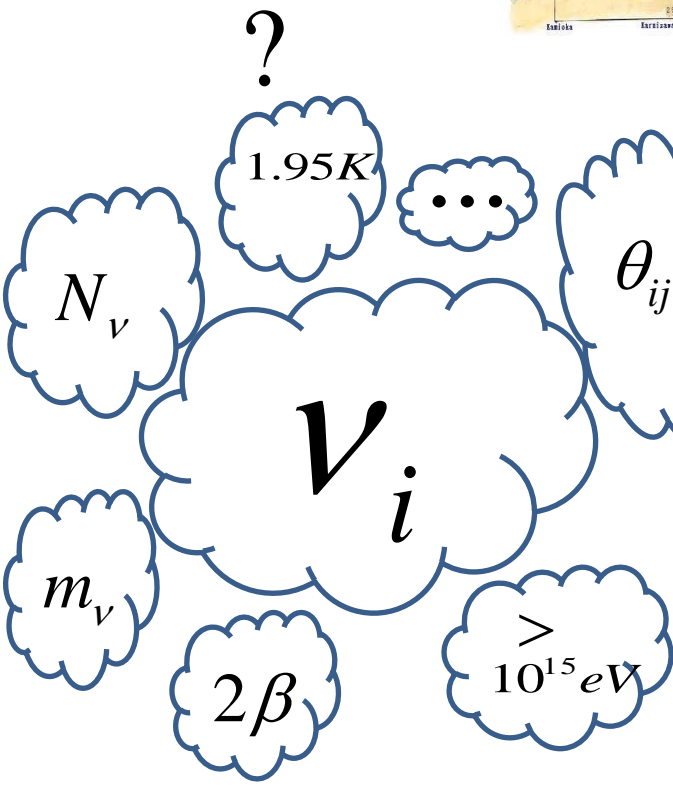
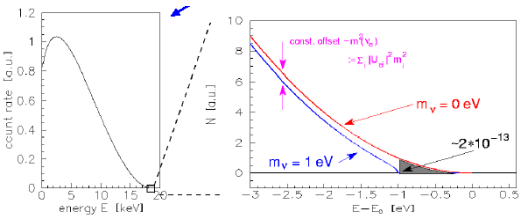
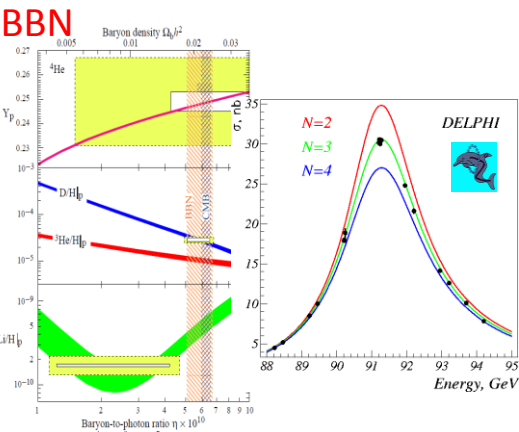
Dark matter searches



Zeplin III

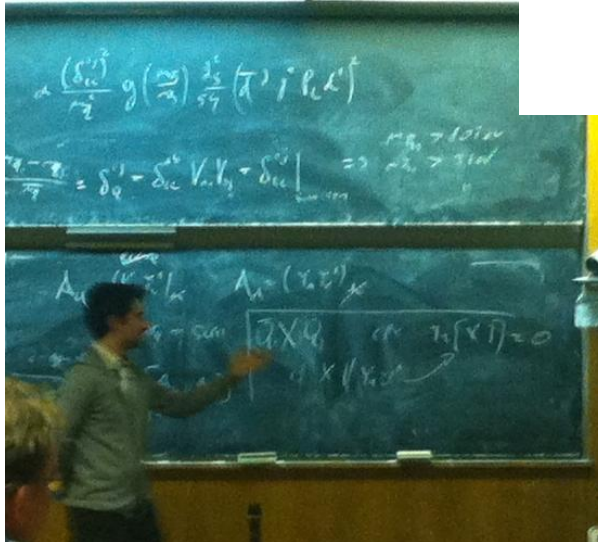
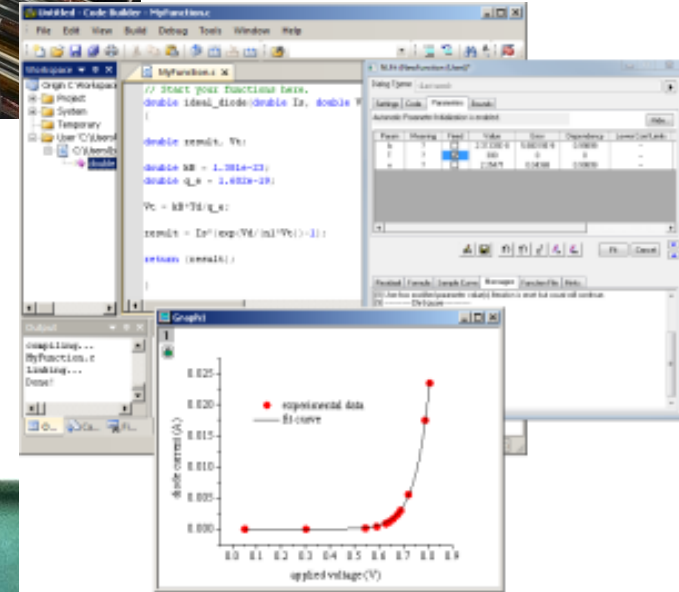


Neutrinos





BUT !!!



Baryon-antiBaryon asymmetry

Lorentz Invariance Violation

Gravitational waves

Extra-dimensions

Dark Energy

Purpose

The International Doctorate Network in Particle Physics, Astrophysics and Cosmology (IDPASC) is an interdisciplinary network whose purpose is to create new high-level experts in the fields of Particle Physics, Astrophysics and Cosmology.

The doctorate network in particle physics, astrophysics and cosmology will appear in the overall range of doctorates offered by each partner university.

Student profiles

Several scientific profiles have to co-exist!

from the **experimental physics** students interested in the development of new detectors or data acquisition and readout systems to the **theoretical physics** student interested in the development of string theories.

to all students a minimum common scientific background should be provided.

This common background will favour the future mobility and employment of the students either in scientific research projects and institutions or in the society at large.

grants

2010/2011/2012

Call FCT/IDPASC for Applications for Doctoral Scholarships

for thesis subjects proposed by IDPASC researchers and taking place in the Portuguese Universities members of the IDPASC network, in Particle and Astroparticle Physics, Astrophysics and Cosmology.

PhD scholarships granted: **21**