

IFIC

INSTITUT DE FÍSICA
CORPUSCULAR

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EXCELENCIA
SEVERO
OCHOA
2024-2030



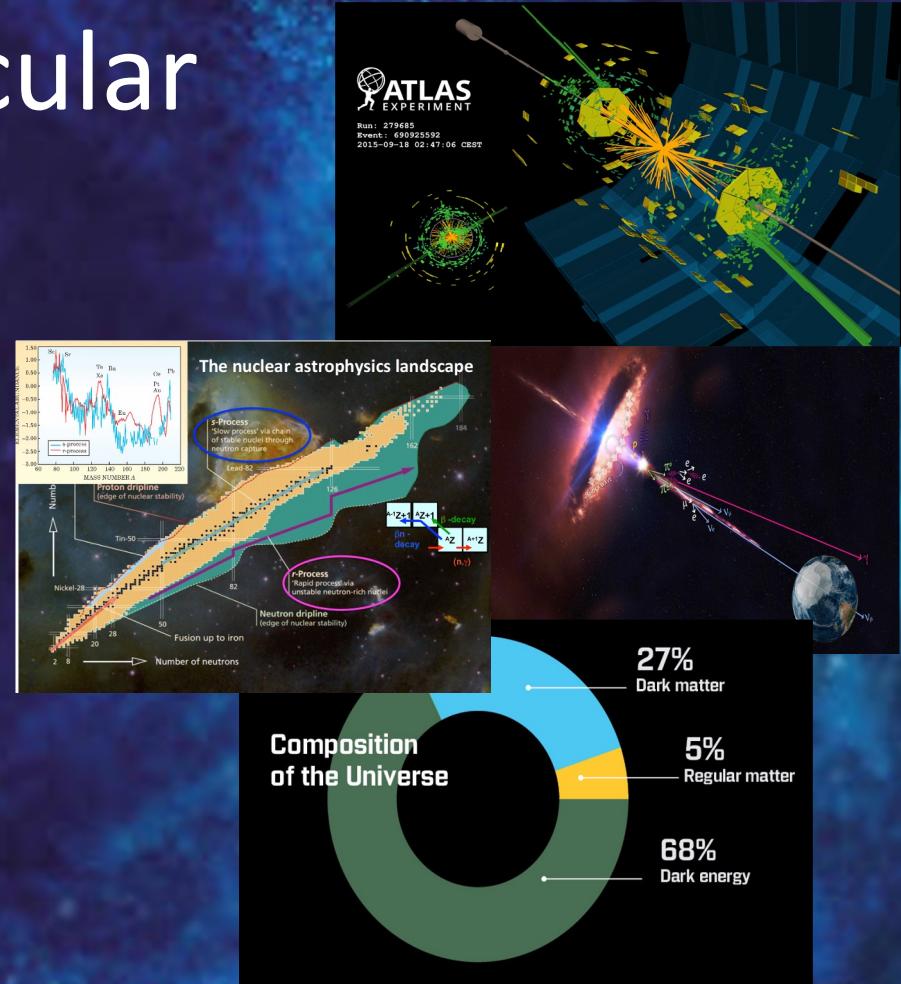
CSIC



UNIVERSITAT
DE VALÈNCIA

Instituto de Física Corpuscular

Joint research institute of the
National Research Council (CSIC)
and the University of Valencia (UV)



Center for Nuclear, Astroparticle
and Particle Physics

A bit of history

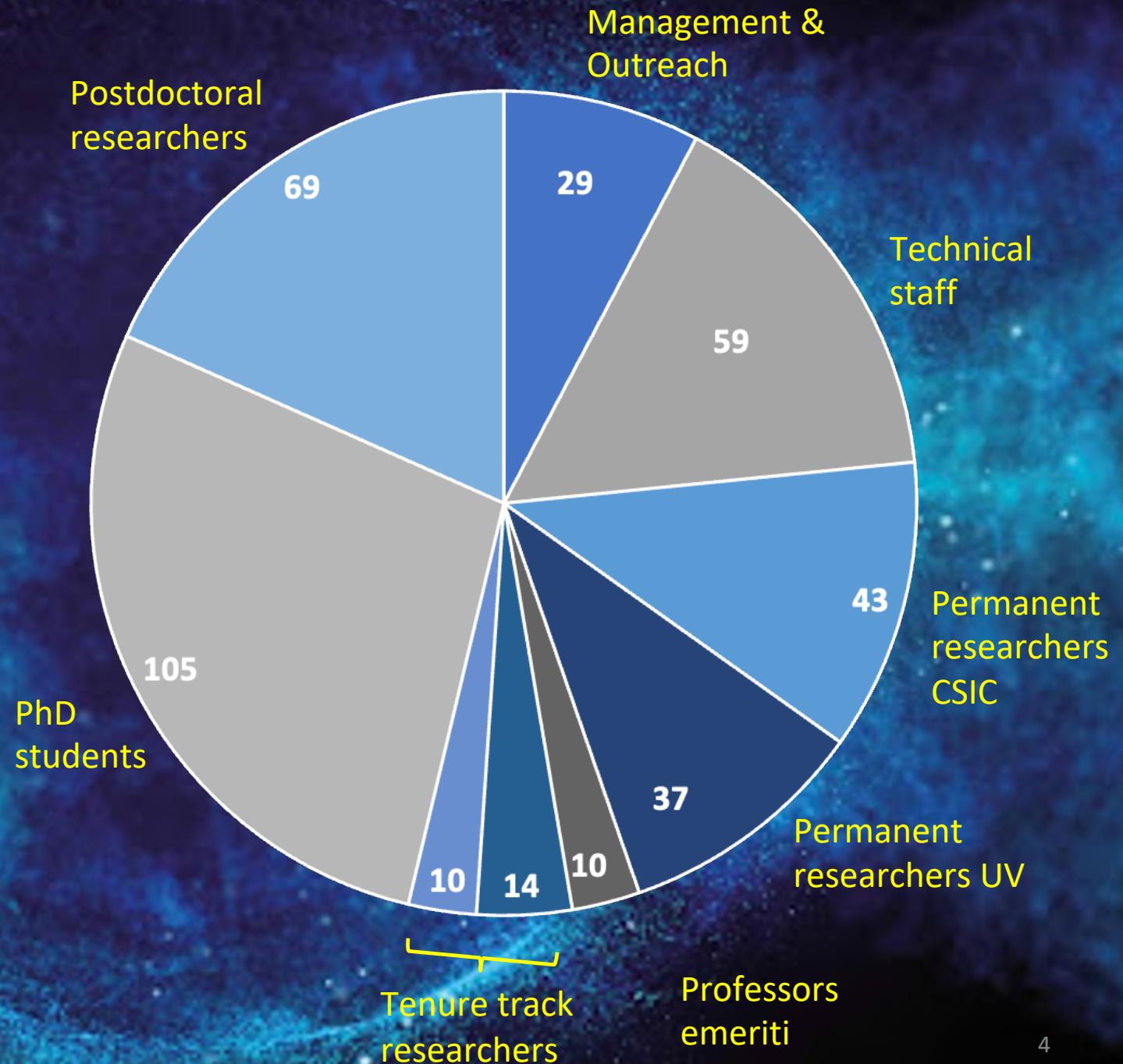
- **IFIC was created in the 1950s** as an appendix to the central **CSIC** organization in Madrid.

This year, **75th anniversary** !!!

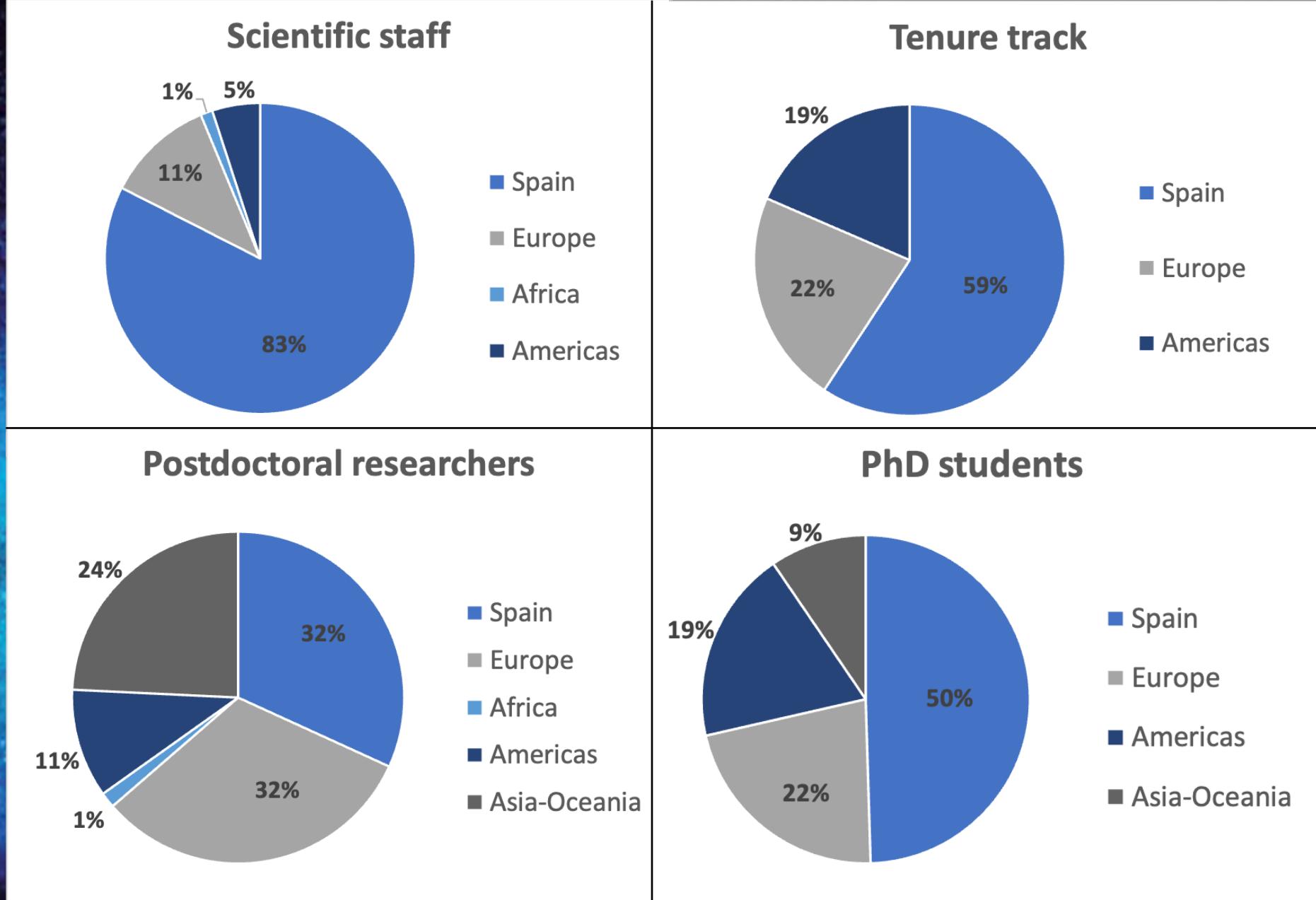
BIG CELEBRATION IN THE FALL
- For several years, IFIC was the only place in Spain with experimental activity in Nuclear and Particle physics.
- Spain rejoins CERN in 1984. In 1985 IFIC becomes a **joint institute with the University of Valencia**.
- Today, IFIC dedicates its efforts to theoretical and experimental research in Nuclear, Particle and Astroparticle Physics and their applications in both Medical Physics and other fields of Science and Technology.
- Twice **Severo Ochoa Center of Excellence**: **2014-2019 & 2024-2030**

Personnel

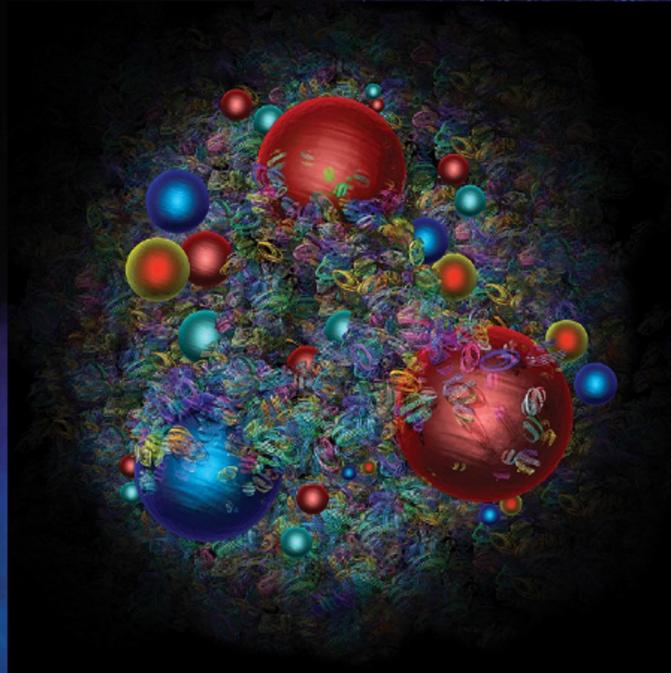
- 376 members
- 288 researchers (incl. PhD students)
- 80 Permanent scientific staff
 - 43 CSIC (32 exp, 11 theory)
 - 37 UV (12 exp, 25 theory)



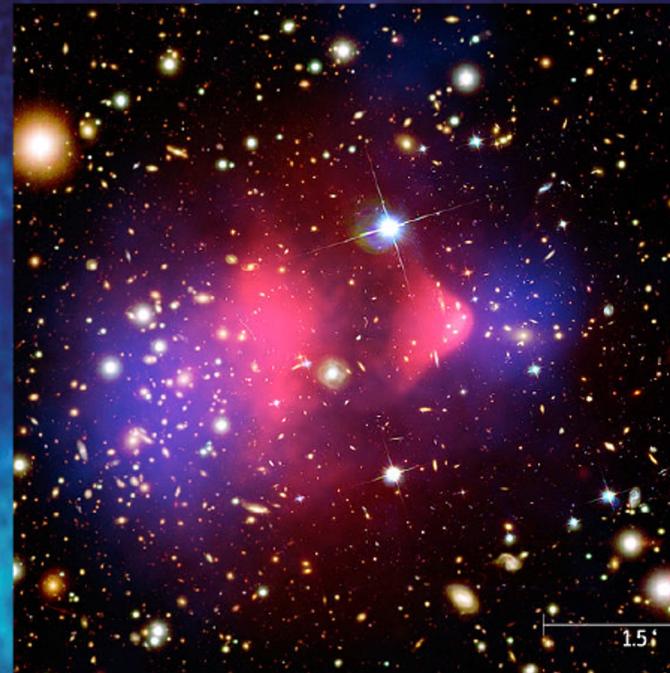
Scientific personnel (nationality)



IFIC RESEARCH LINES



Origin of mass:
understanding the
fundamental laws of
physics



Origin of matter:
understanding the
Universe



Advanced instrumentation
and computing: from
fundamental physics to
society

EXPERIMENTAL RESEARCH IN FUNDAMENTAL PHYSICS

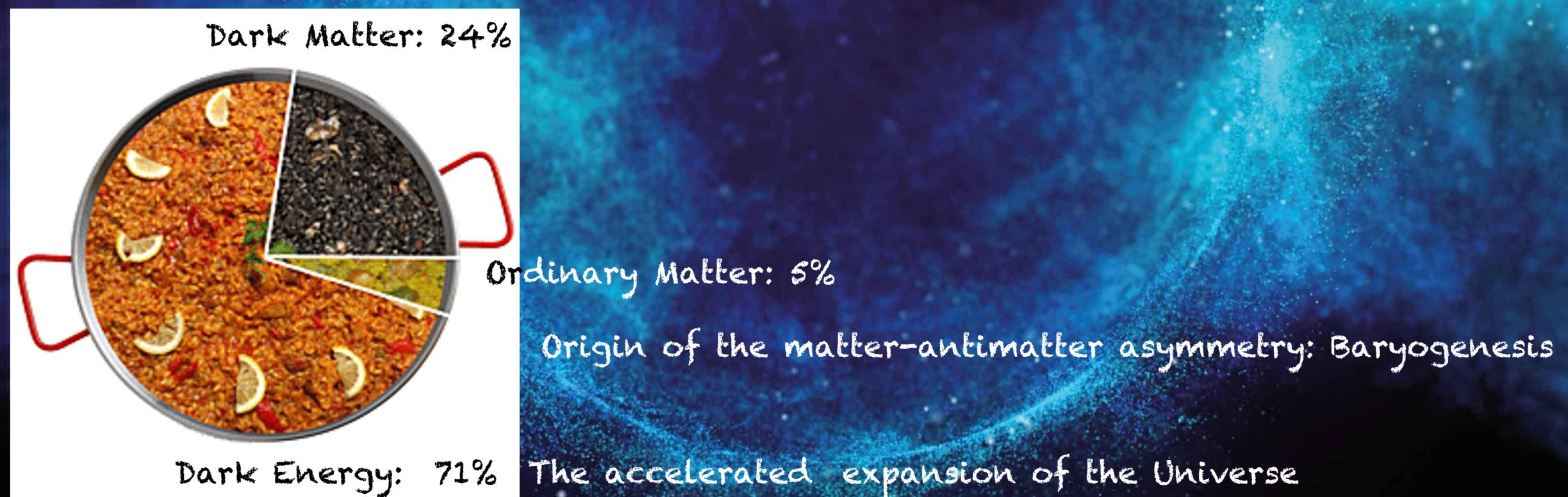


THEORETICAL RESEARCH IN FUNDAMENTAL PHYSICS

- Model building to explain the elementary particles and their interactions
- Analysis and interpretation of the experimental data: LHC, neutrino oscillations, nuclear physics, etc., in close collaboration with the experimental groups
- Aim to understand the structure and evolution of our Universe



Cosmology,





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Welcome to Valencia and enjoy the Workshop on
Small-Scale Structure of the Universe and Self-
Interacting Dark Matter !

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