

THEORETICAL AND EXPERIMENTAL PHYSICS

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2015

1. FINDINGS

2. DESIGN

ALICE

ATLAS

CMS

LHCb

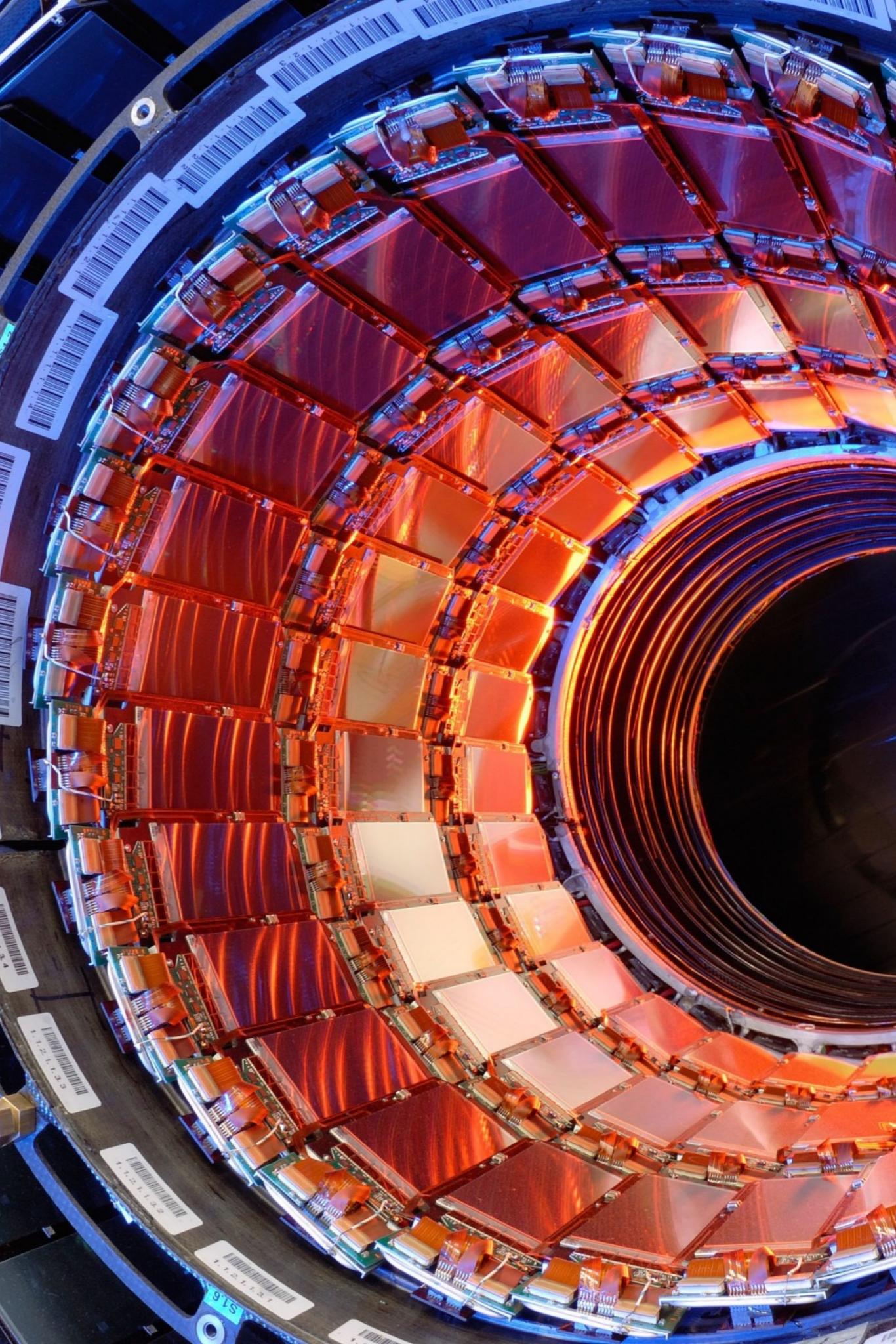
3. FUTURE

THE MOST IMPRESSING MACHINE.

THE GREATEST EXPERIMENT IN
HUMAN HISTORY.

WHAT DO YOU KNOW ABOUT LHC?

- Collaboration with over 10,000 scientists and engineers from over 100 countries
- 175 meters beneath Franco-Swiss border, near Geneva
- Lies in a tunnel 27 kilometers circumference
- Total cost = 3.74 billion British pounds
- Seven detectors for certain kind of research



1 . FINDINGS

AIMS

1. **Testing** the predictions of different physics theories
2. **Addressing** some of new questions of Physics
3. **Advising** human understanding of physical laws

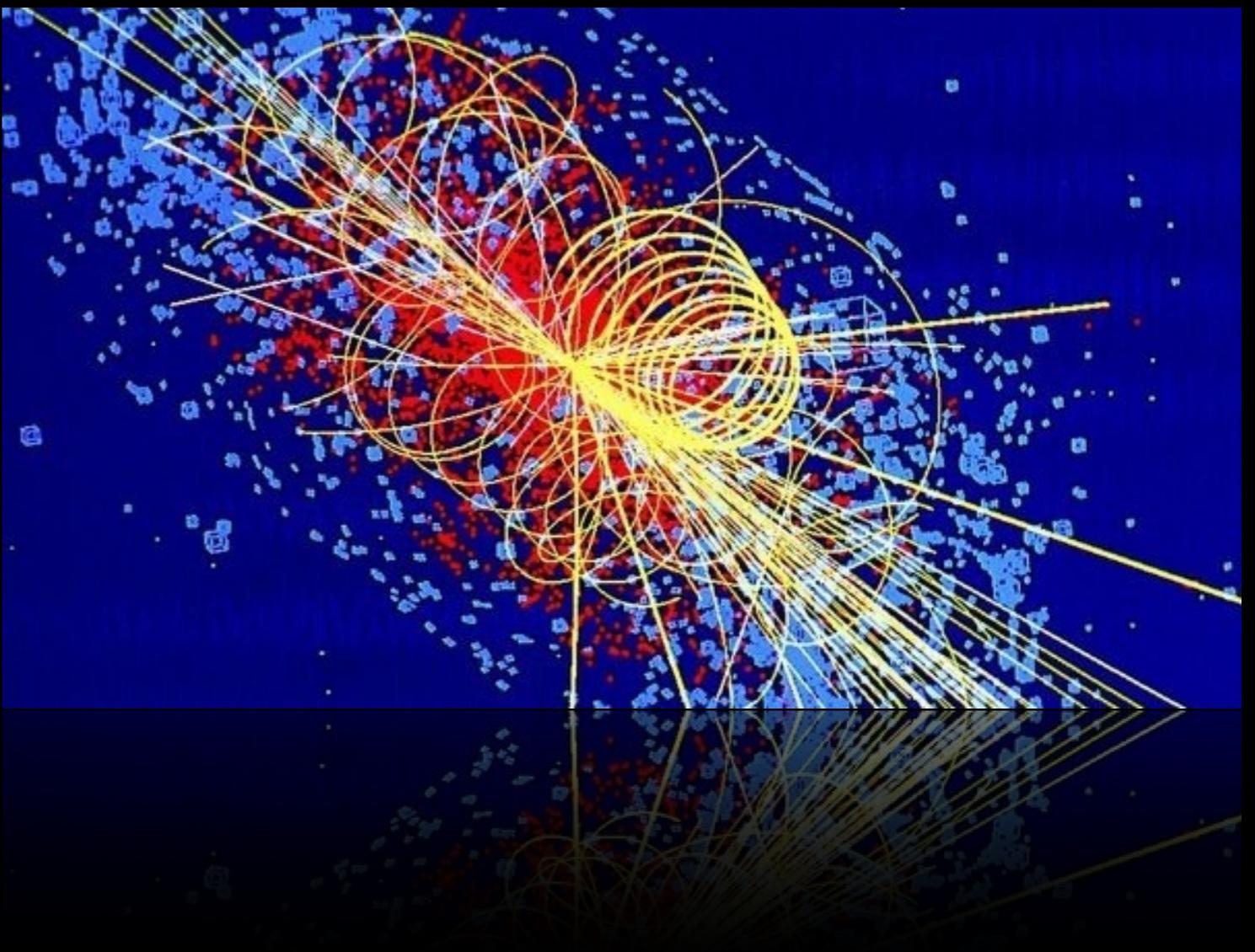
WHERE IS THE TRUTH?

Particle physics

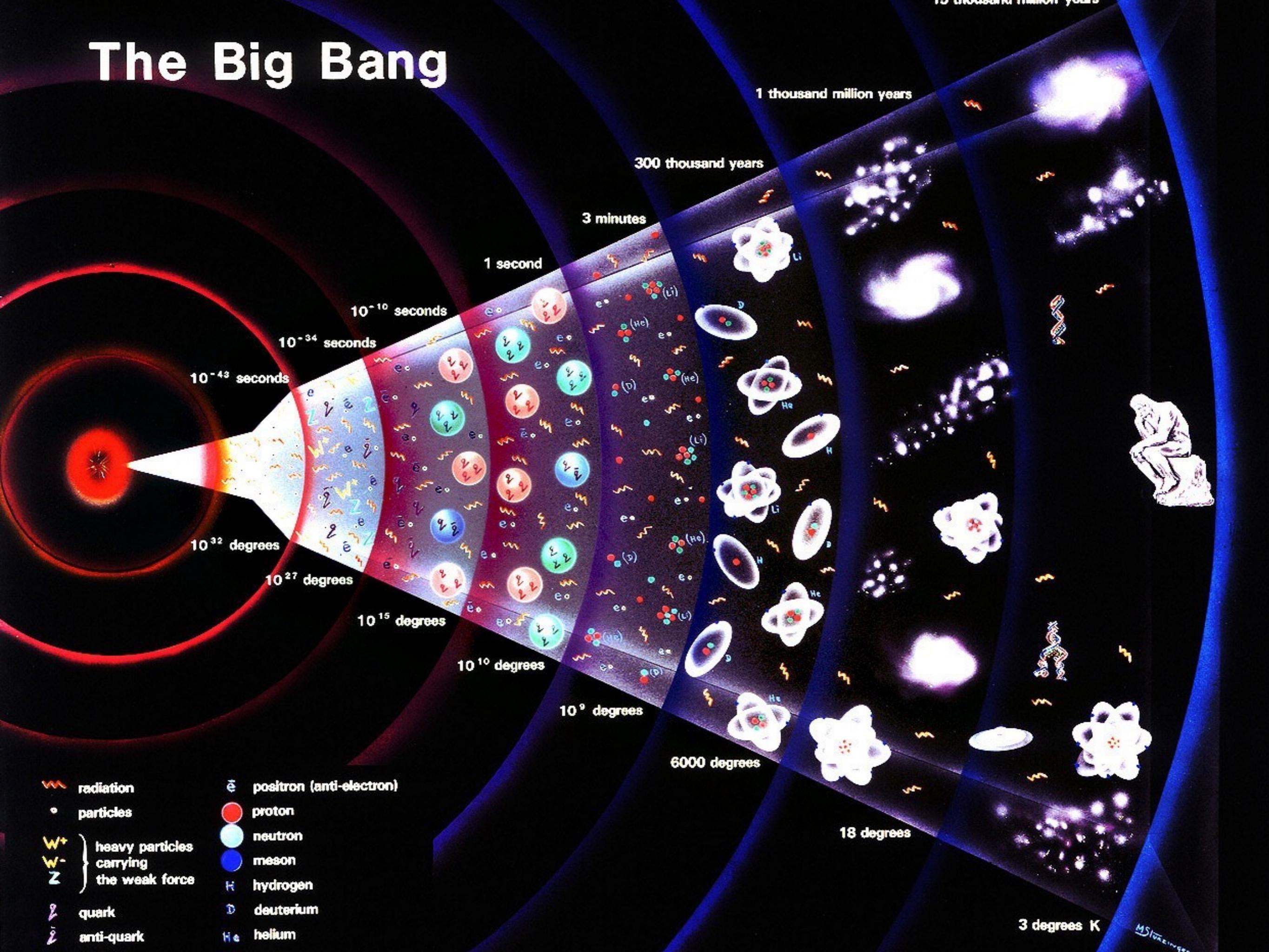
High-energy Physics

QCD

- Standart Model
- Higgs Boson
- Supersymmetric theories

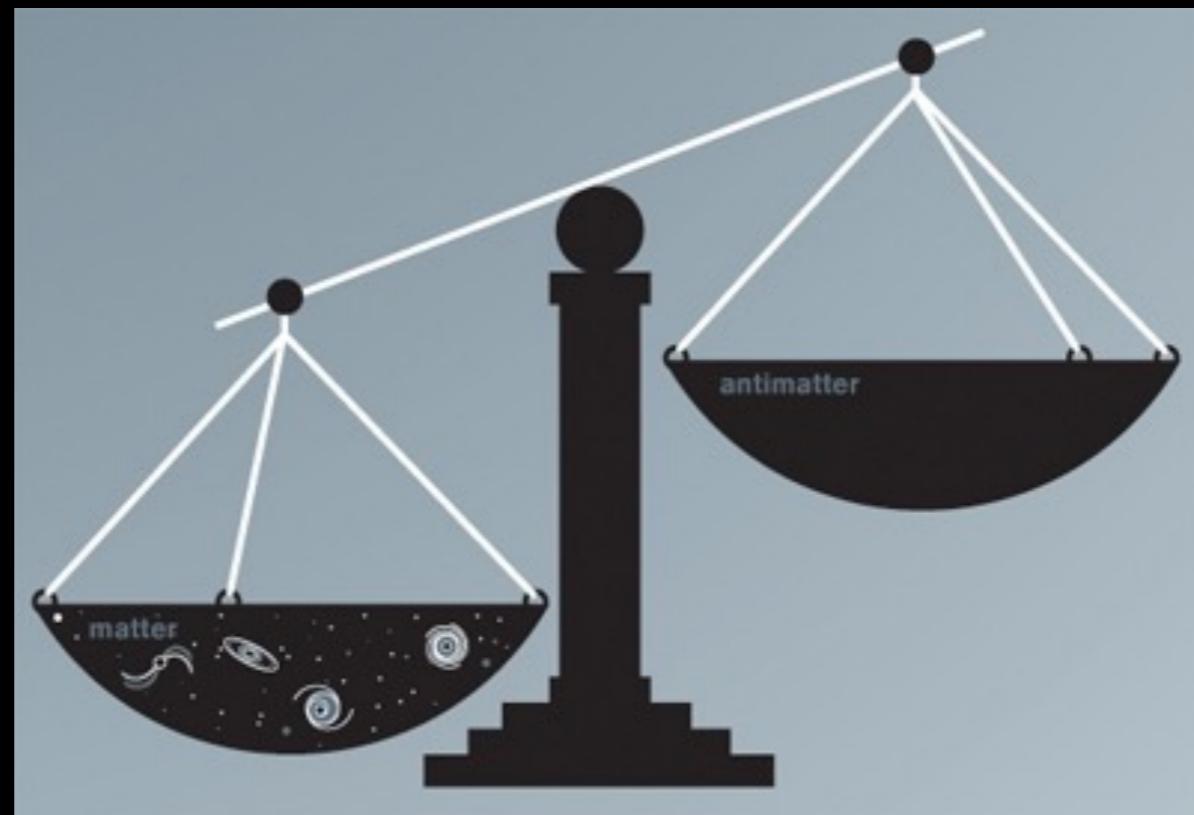


The Big Bang

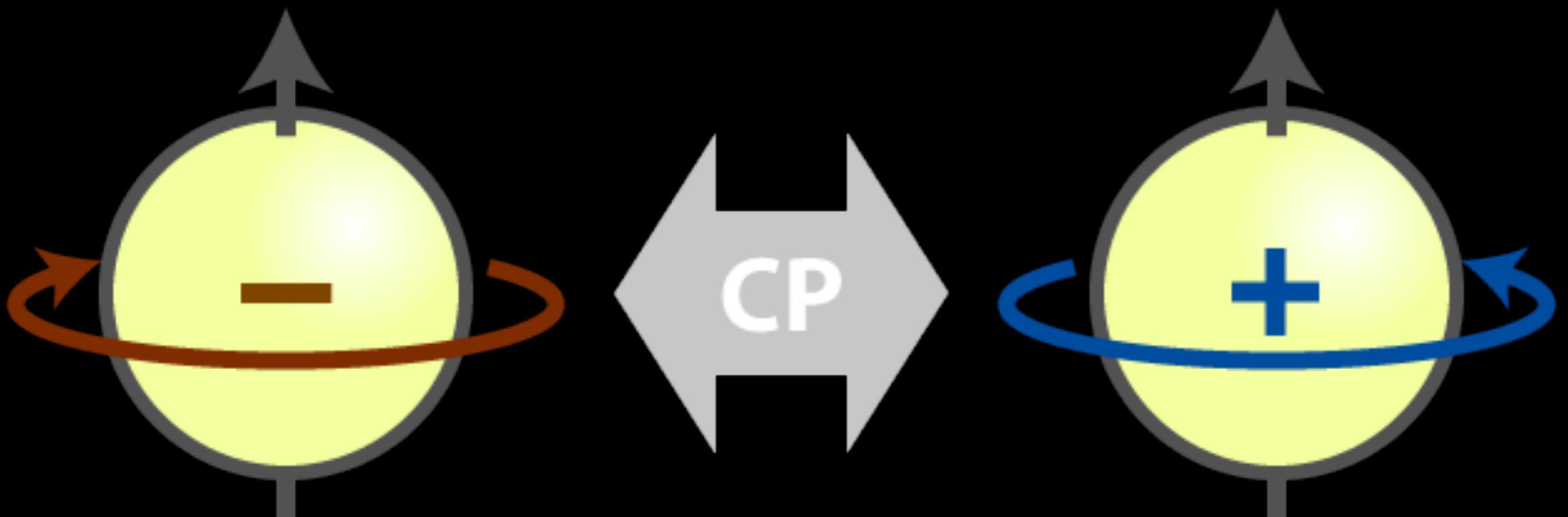


CP-VIOLATION

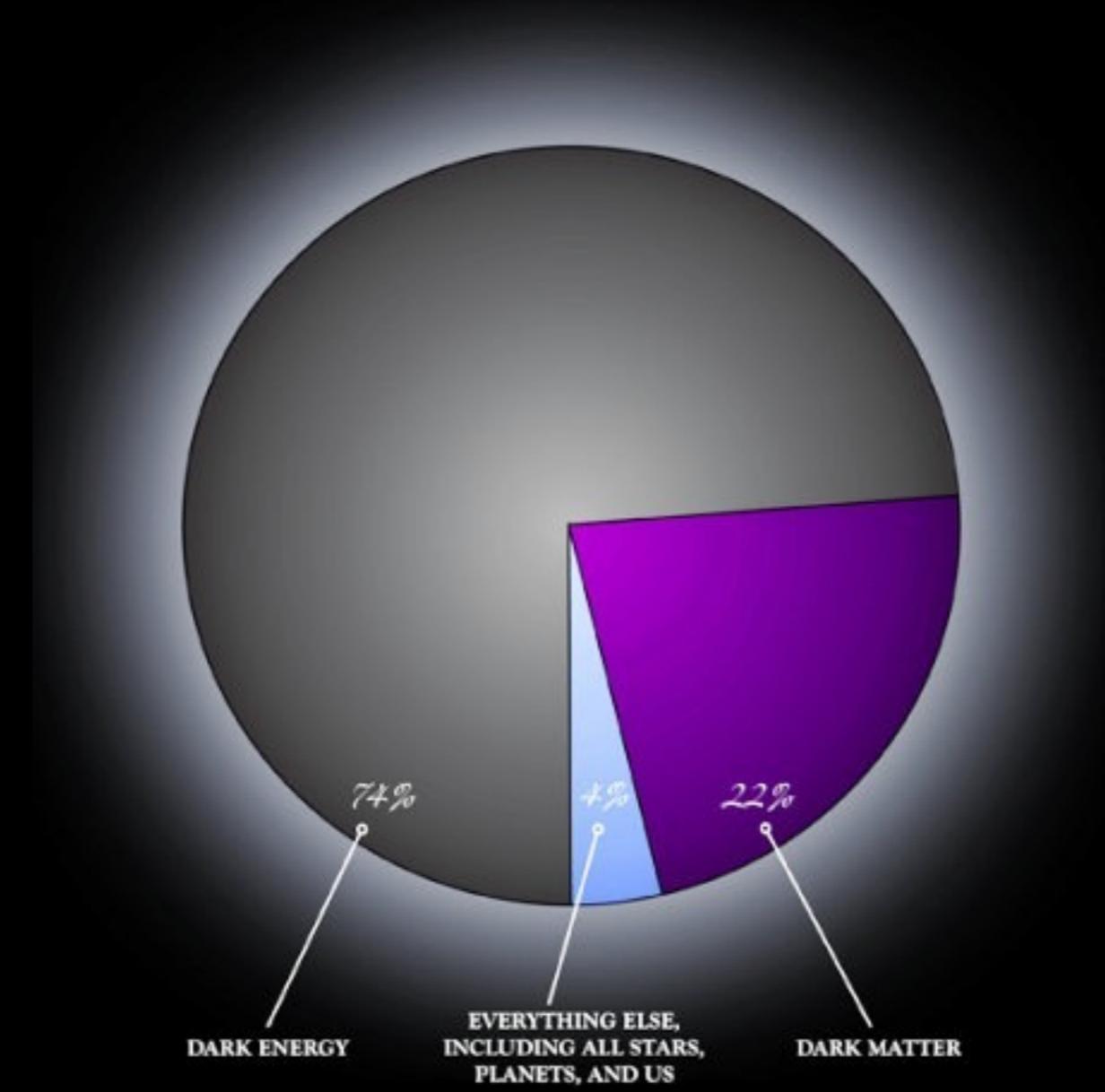
Why is our Universe made
by **matter** but not
antimatter?



CP-MECHANISM



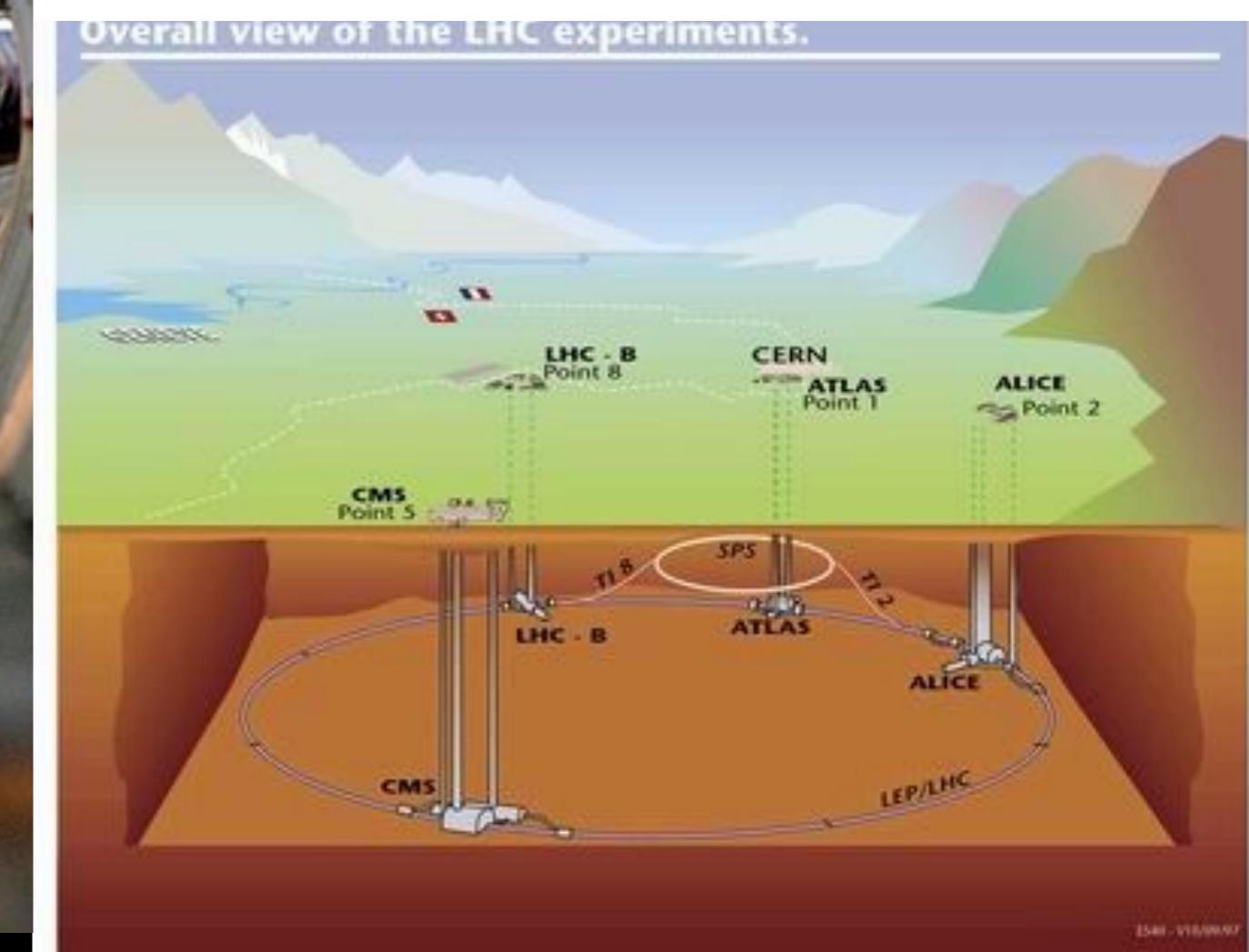
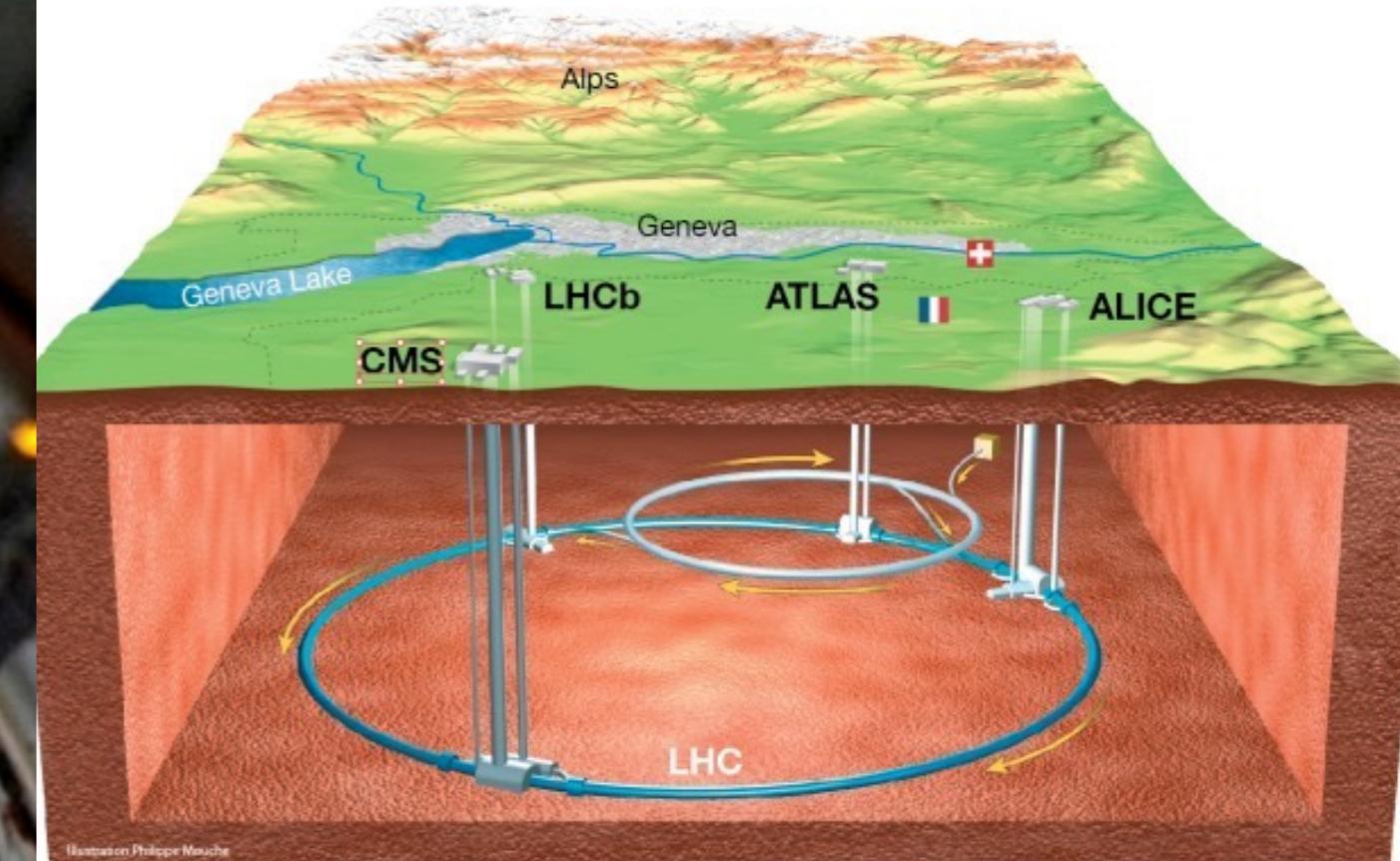
DARK MATTER AND ENERGY



2. DESIGN



Sergey Anashkevitch | aquat



3. FUTURE

VERY LARGE HADRON COLLIDER?

THE
BIG BANG
MACHINE



«If the LHC could do this, then so could cosmic-ray collisions».

-LSAG REPORT



THANK YOU FOR ATTENTION

