

BIENVENIDOS AL CERN

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[@CERNtripetas](https://twitter.com/CERNtripetas)



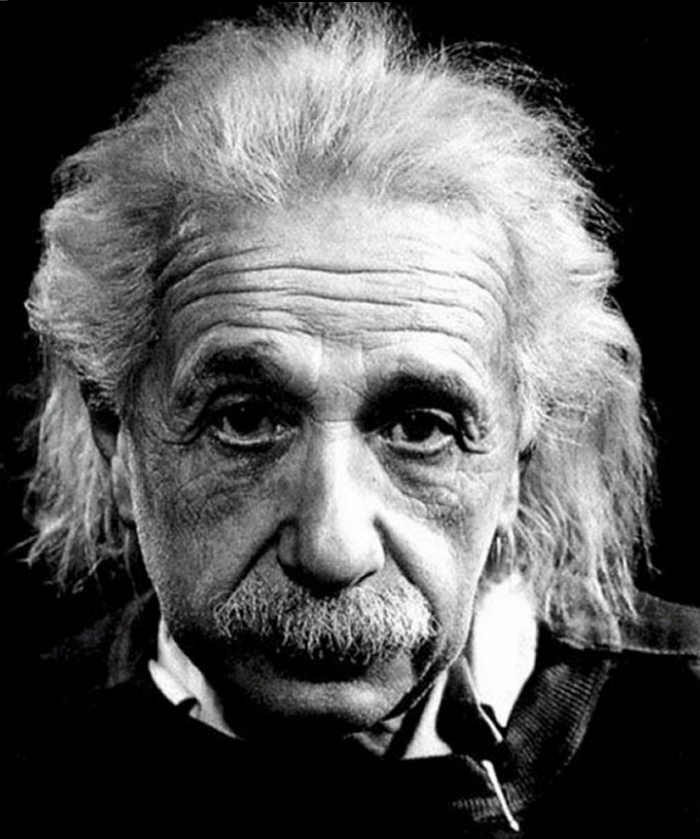


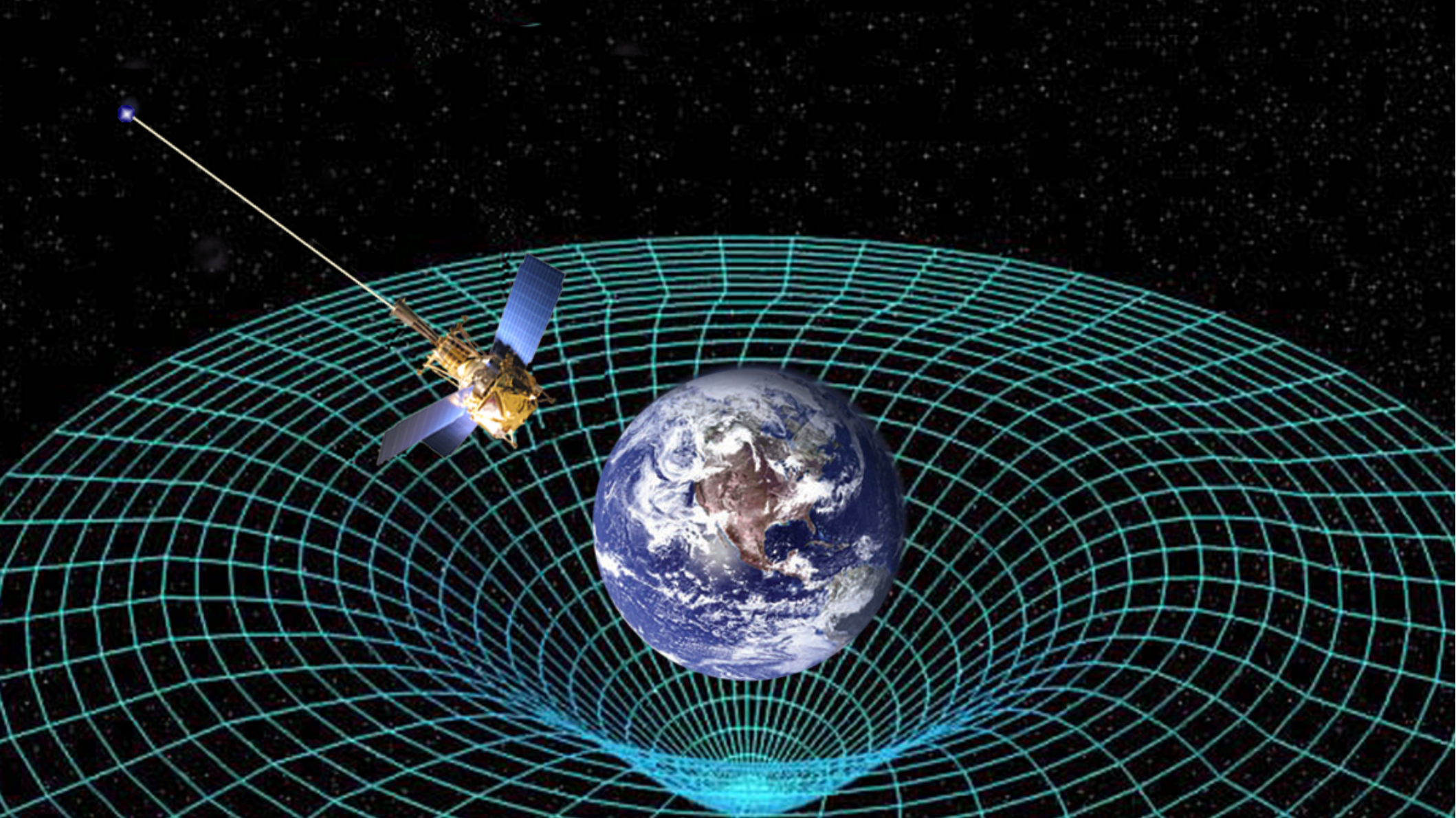




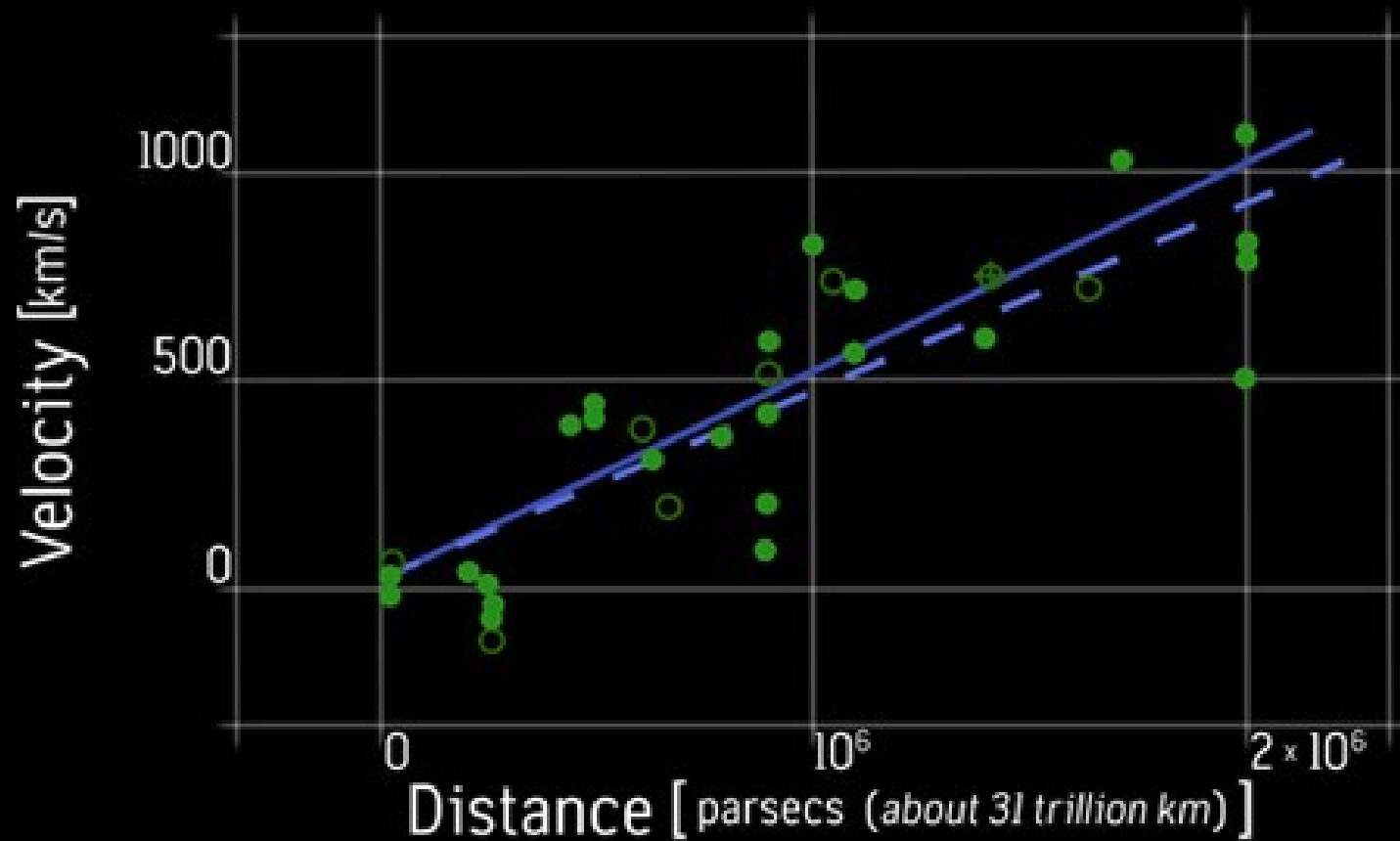


$$R_{\mu\nu} - \frac{1}{2}Rg_{\mu\nu} + \Lambda g_{\mu\nu} = 8\pi T_{\mu\nu}$$

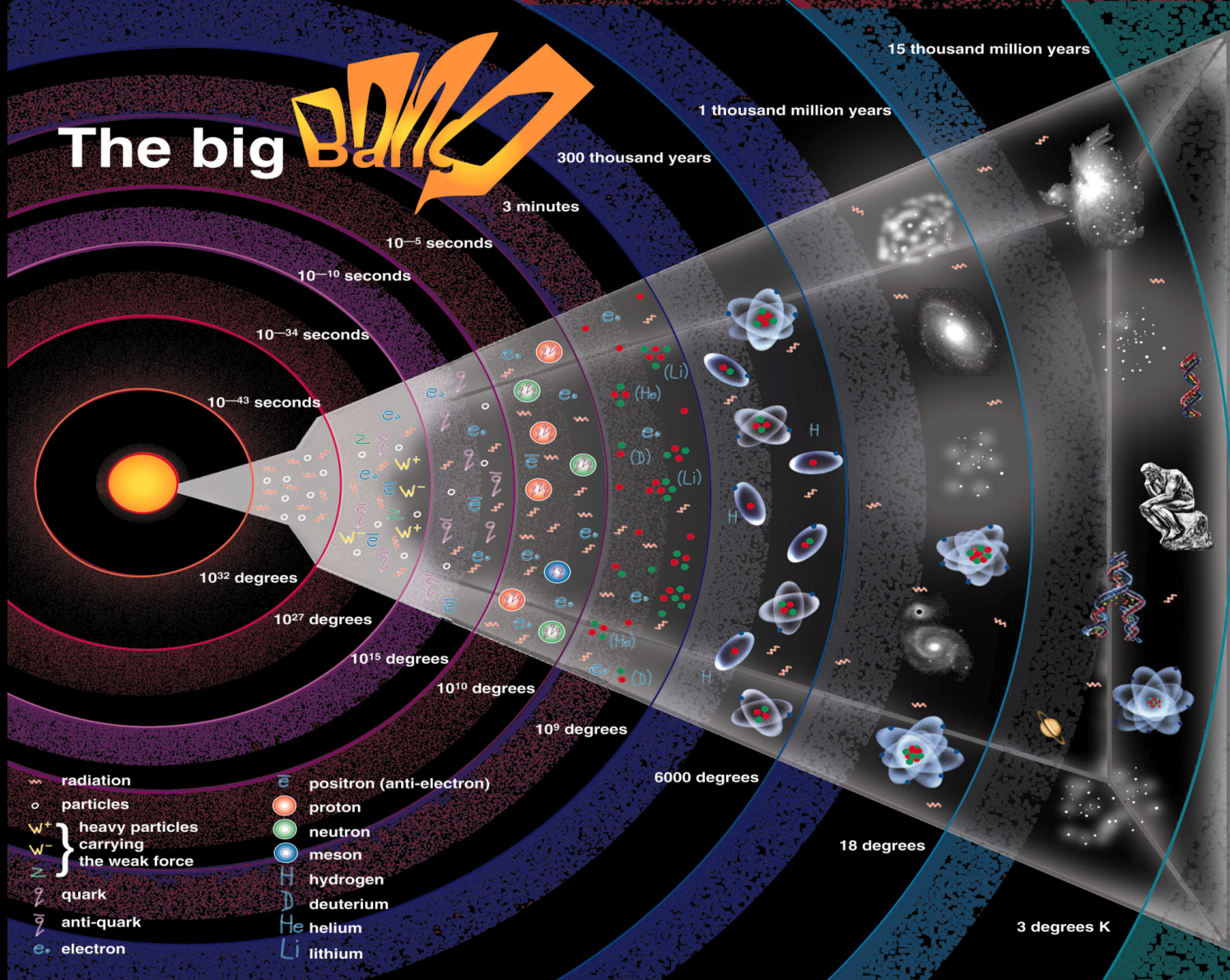








The big Bang



- ⋯ radiation
- particles
- W⁺ } heavy particles carrying the weak force
- W⁻ }
- Z quark
- q anti-quark
- e⁻ electron

- e⁺ positron (anti-electron)
- proton
- neutron
- meson
- H hydrogen
- D deuterium
- He helium
- Li lithium

300 thousand years

1 thousand million years

15 thousand million years

10³² degrees

10²⁷ degrees

10¹⁵ degrees

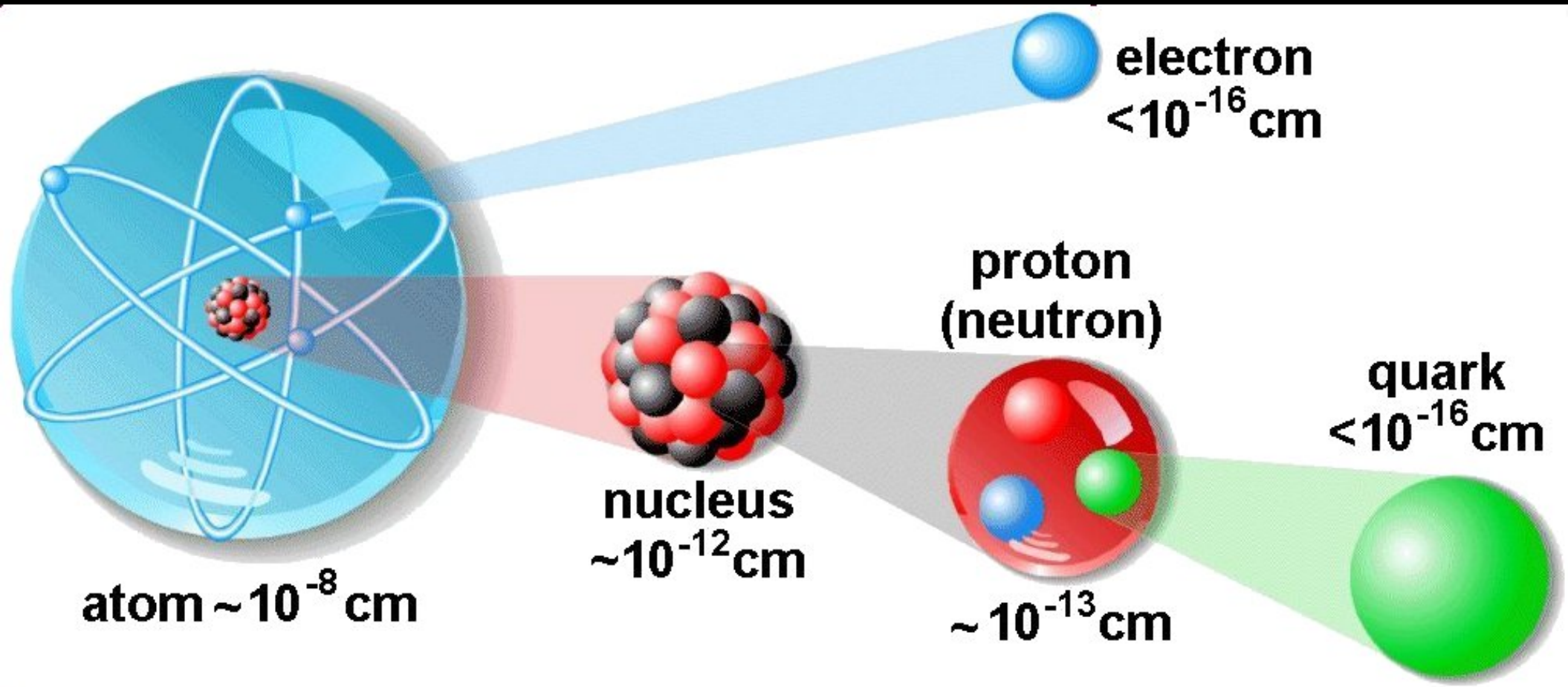
10¹⁰ degrees

10⁹ degrees

6000 degrees

18 degrees

3 degrees K



Quarks

u up	c charm	t top
d down	s strange	b bottom

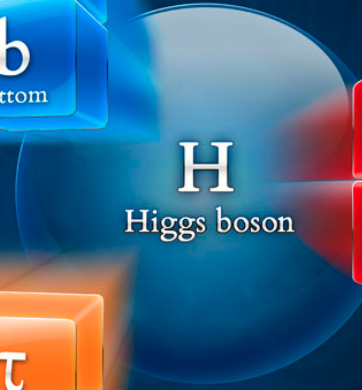
Leptons

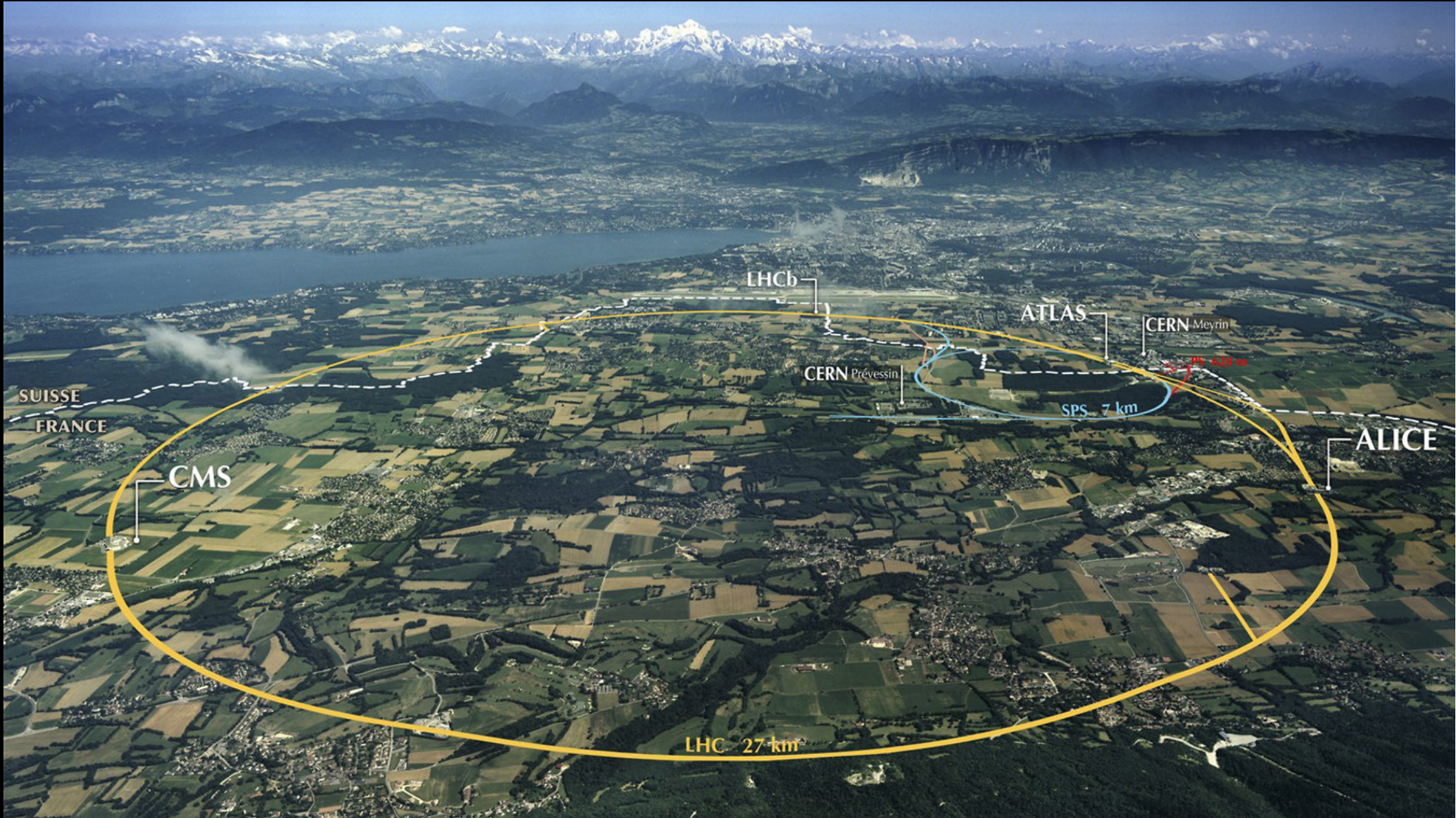
e electron	μ muon	τ tau
ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino

Force Carriers

Z Z boson	γ photon
W W boson	g gluon

H
Higgs boson





SUISSE
FRANCE

CMS

LHCb

CERN Prévessin

ATLAS

CERN Meyrin

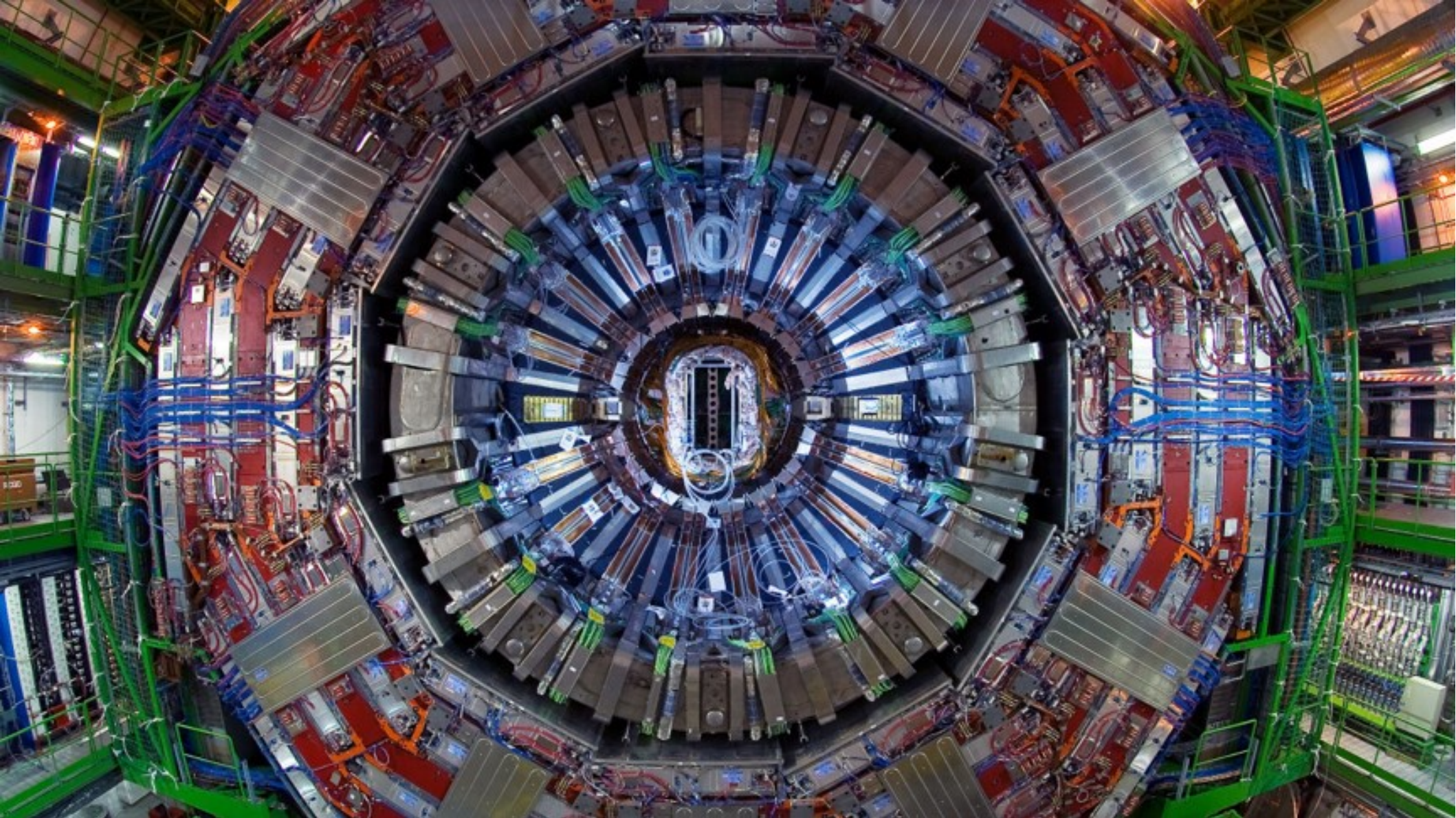
SPS 7 km

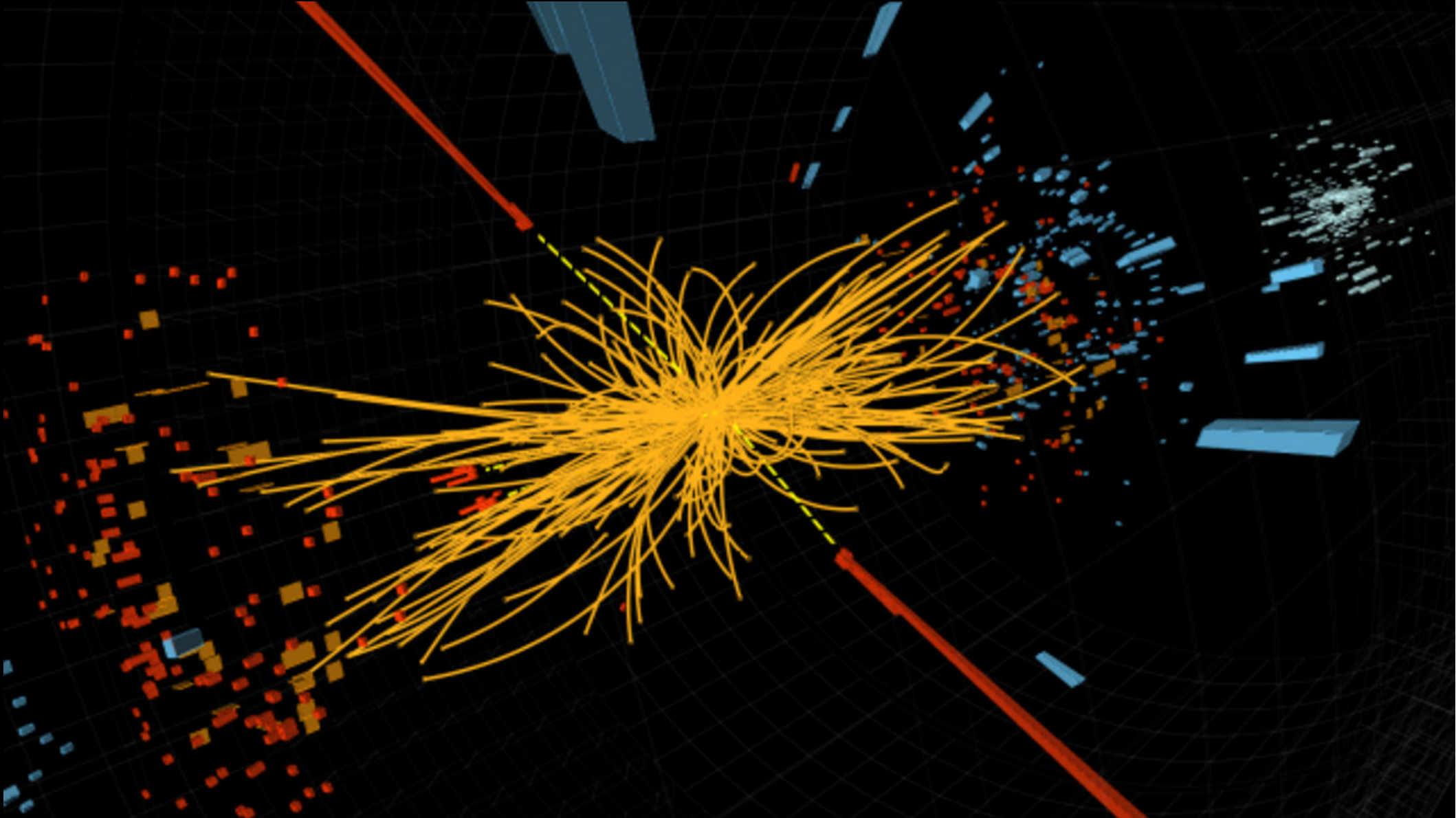
PS 6.18 km

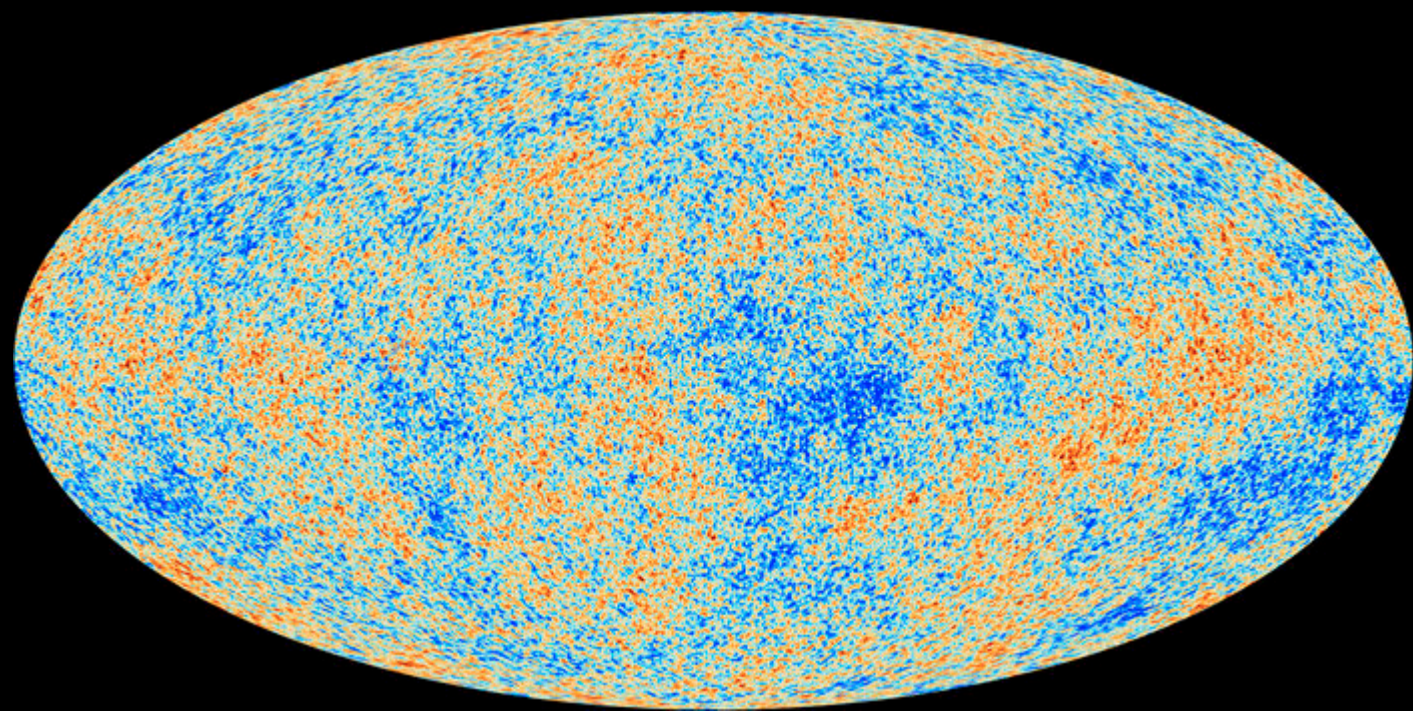
ALICE

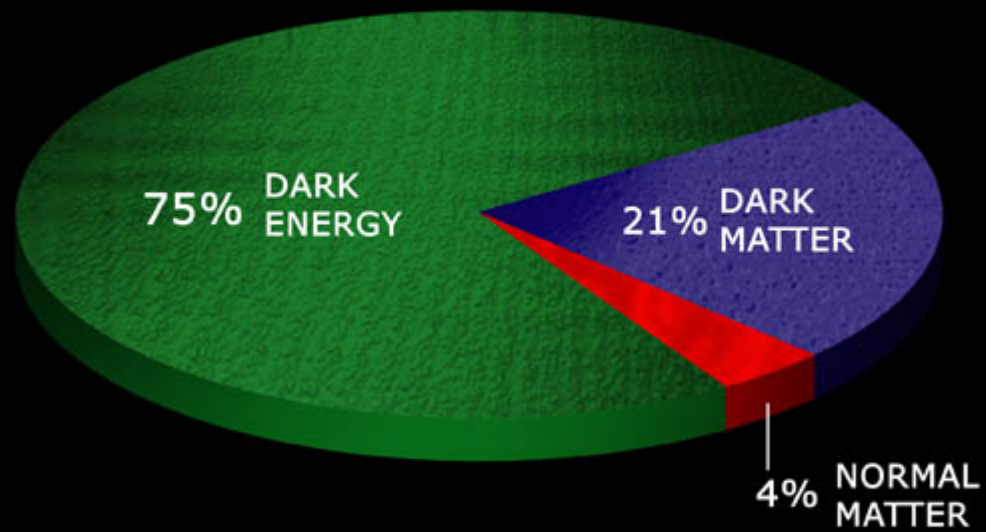
LHC 27 km









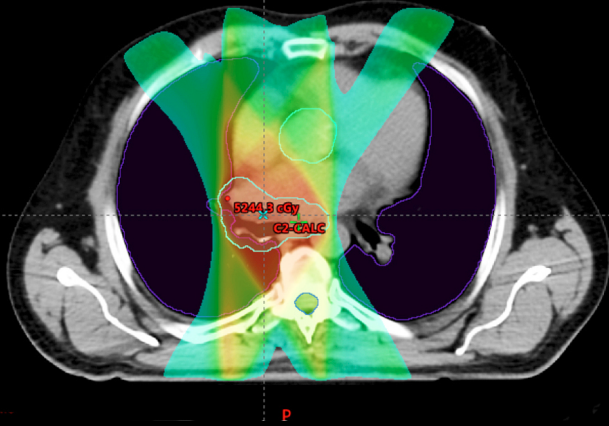


A black and white close-up portrait of an elderly man with curly hair, looking slightly to the right with a gentle smile. The background is dark and out of focus.

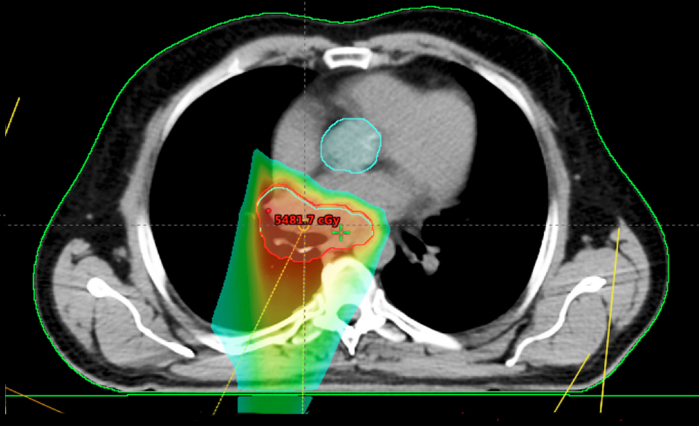
**Ciencia para conocer el mundo
Tecnología para cambiarlo**

Jorge Wagensberg

Intensity Modulated PHOTON Therapy



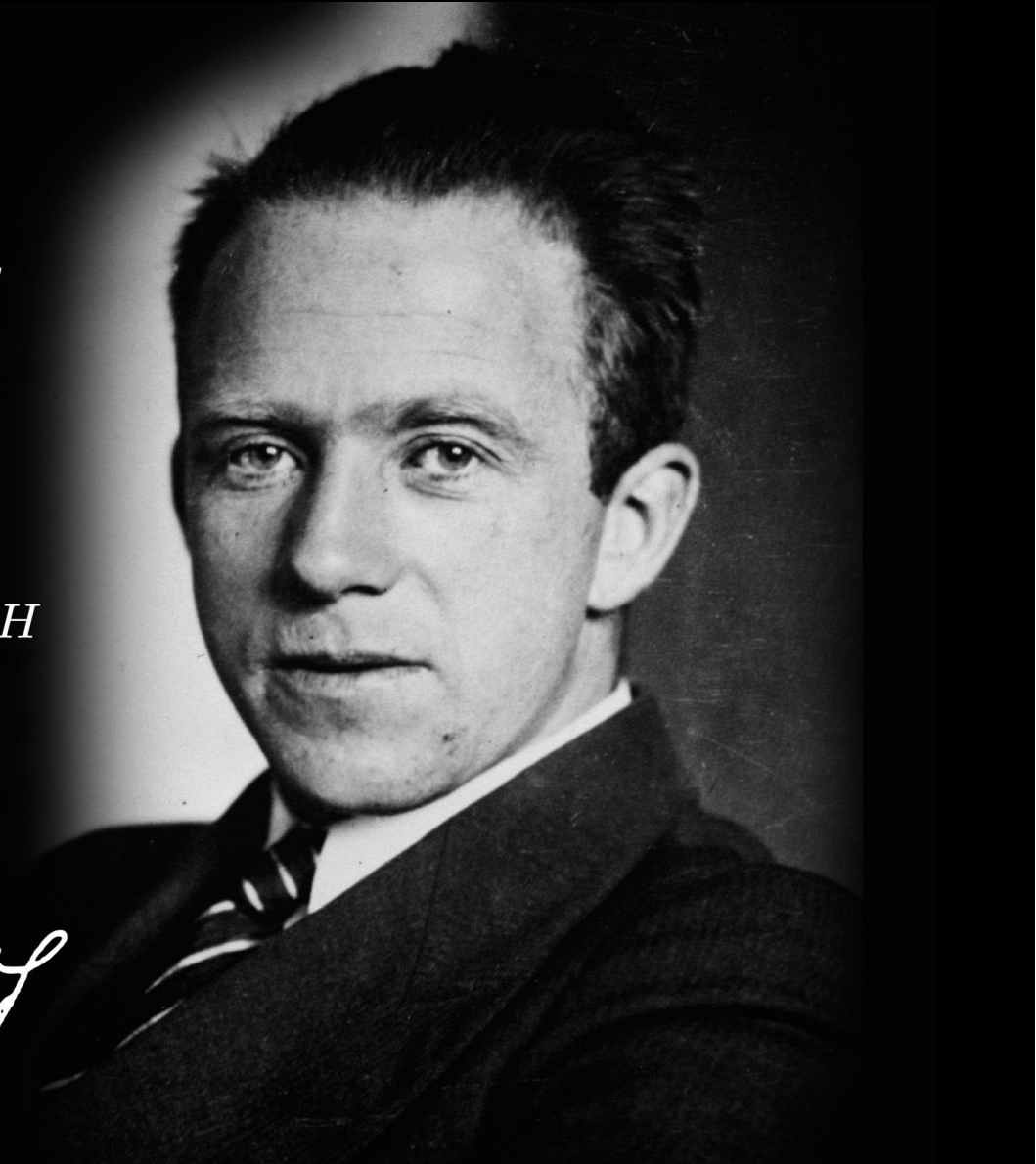
Intensity Modulated PROTON Therapy

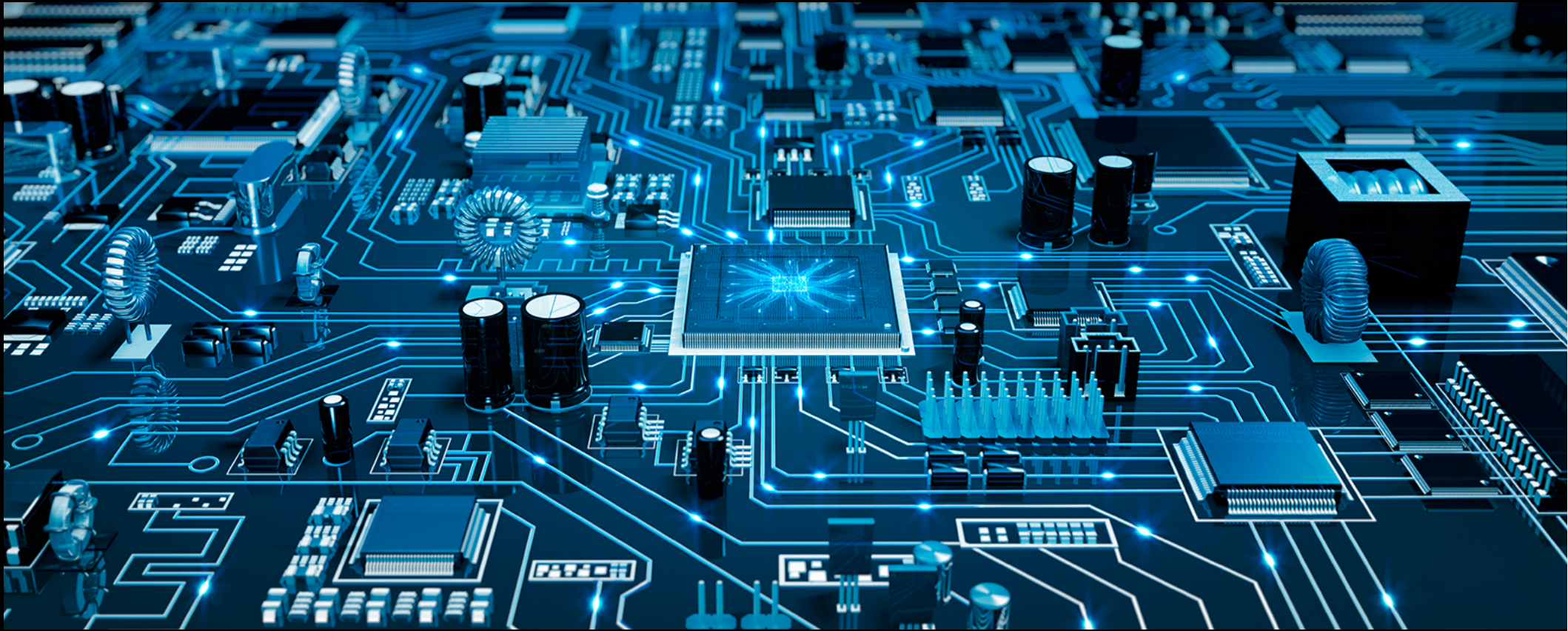


$$\Delta x \cdot \Delta p \sim h$$

$$\frac{dA_H}{dt} = \frac{i}{\hbar} [H_H, A_H] + (\partial A_S)_H$$

Werner Heisenberg

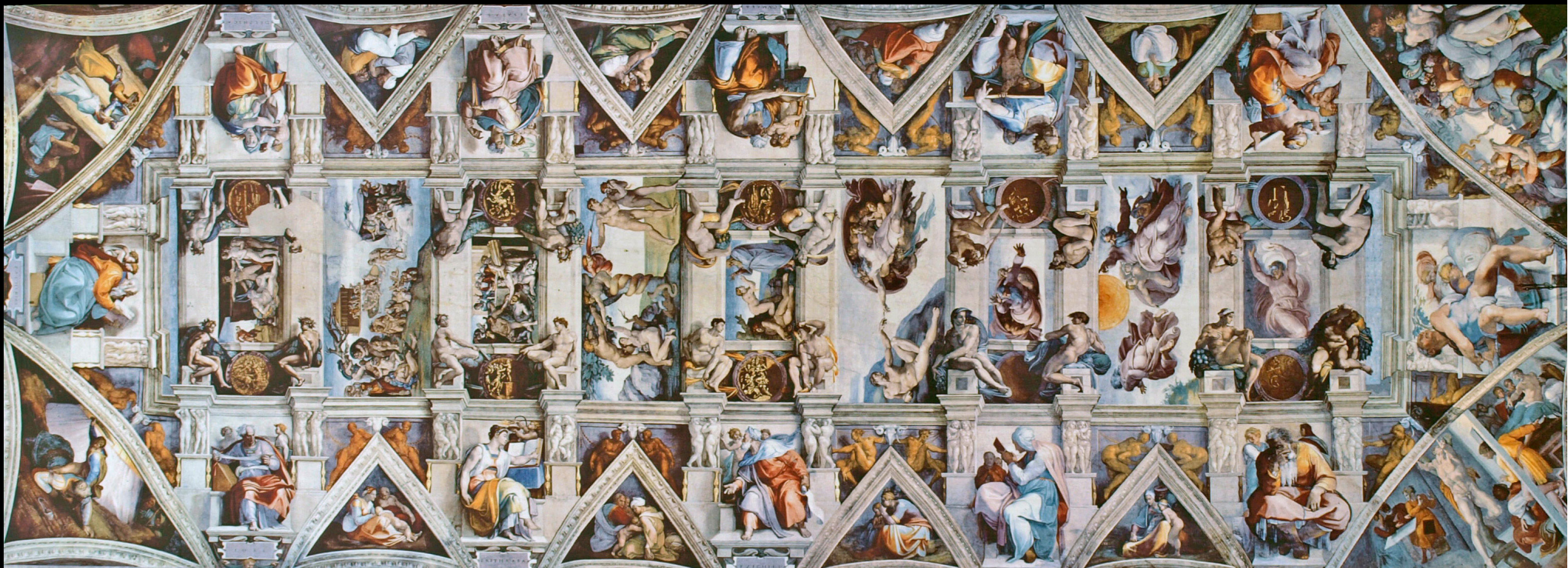






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¡MUCHAS GRACIAS!