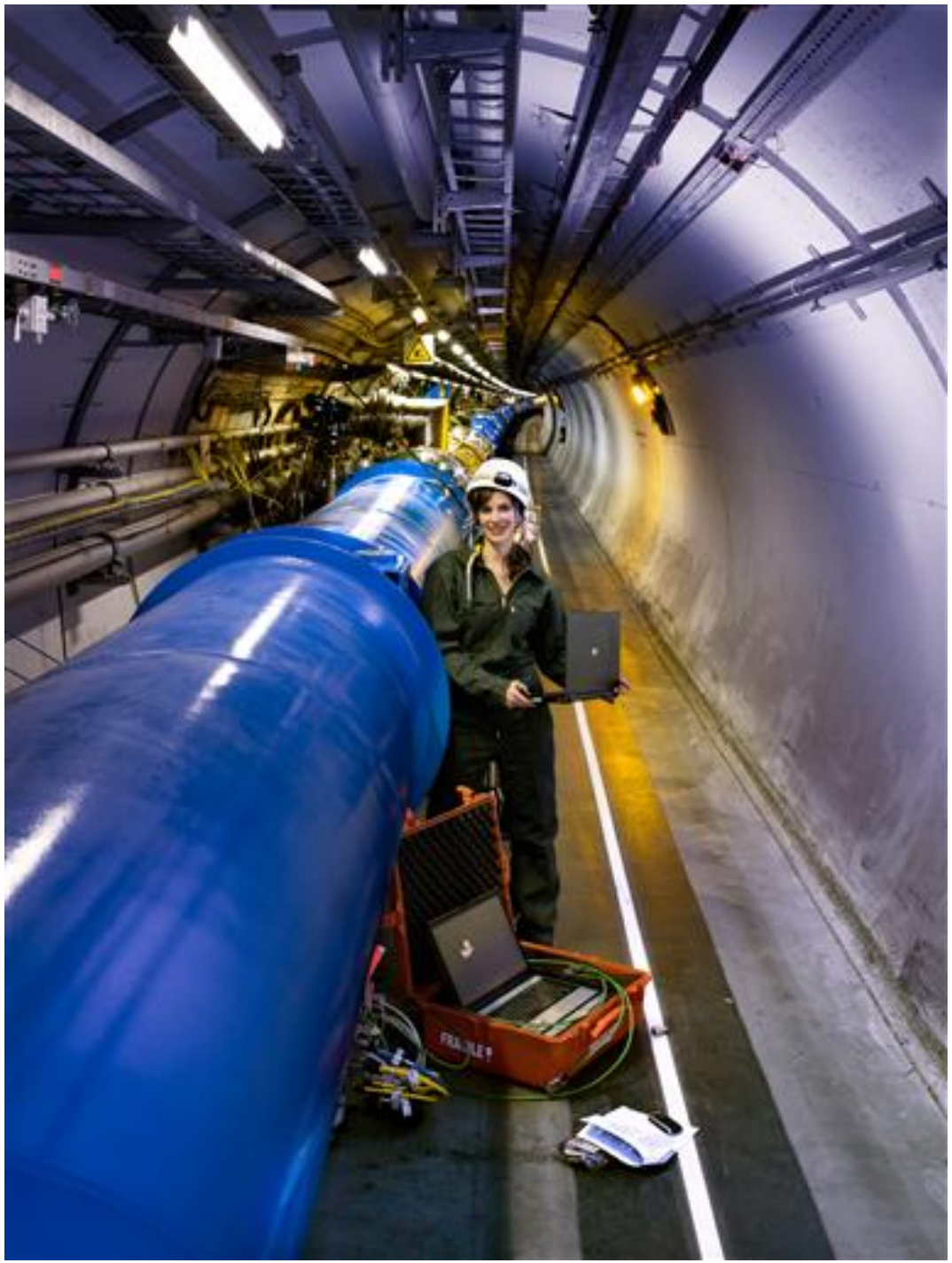
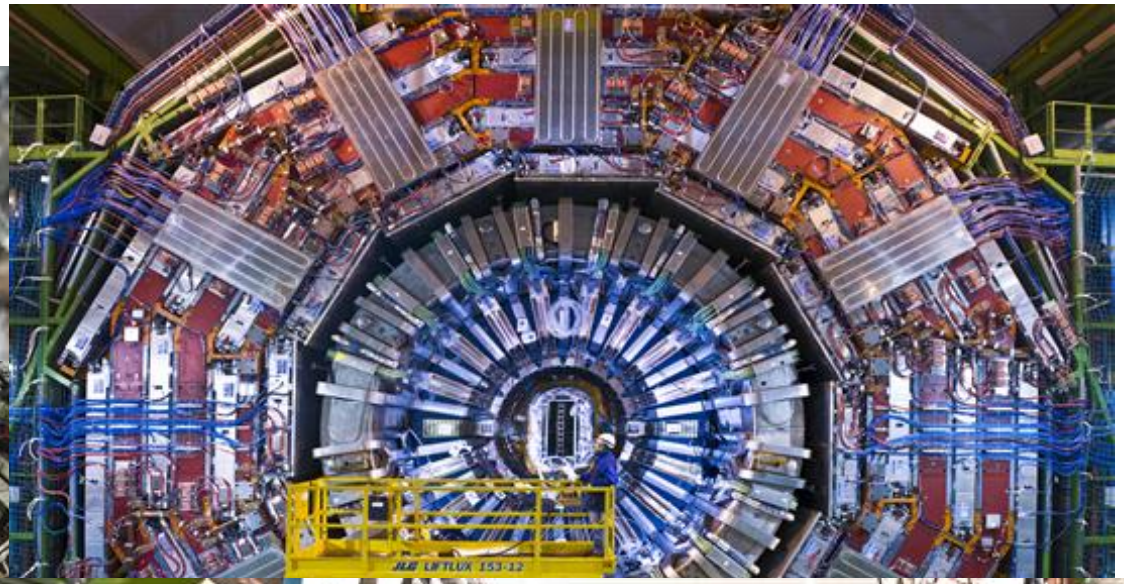
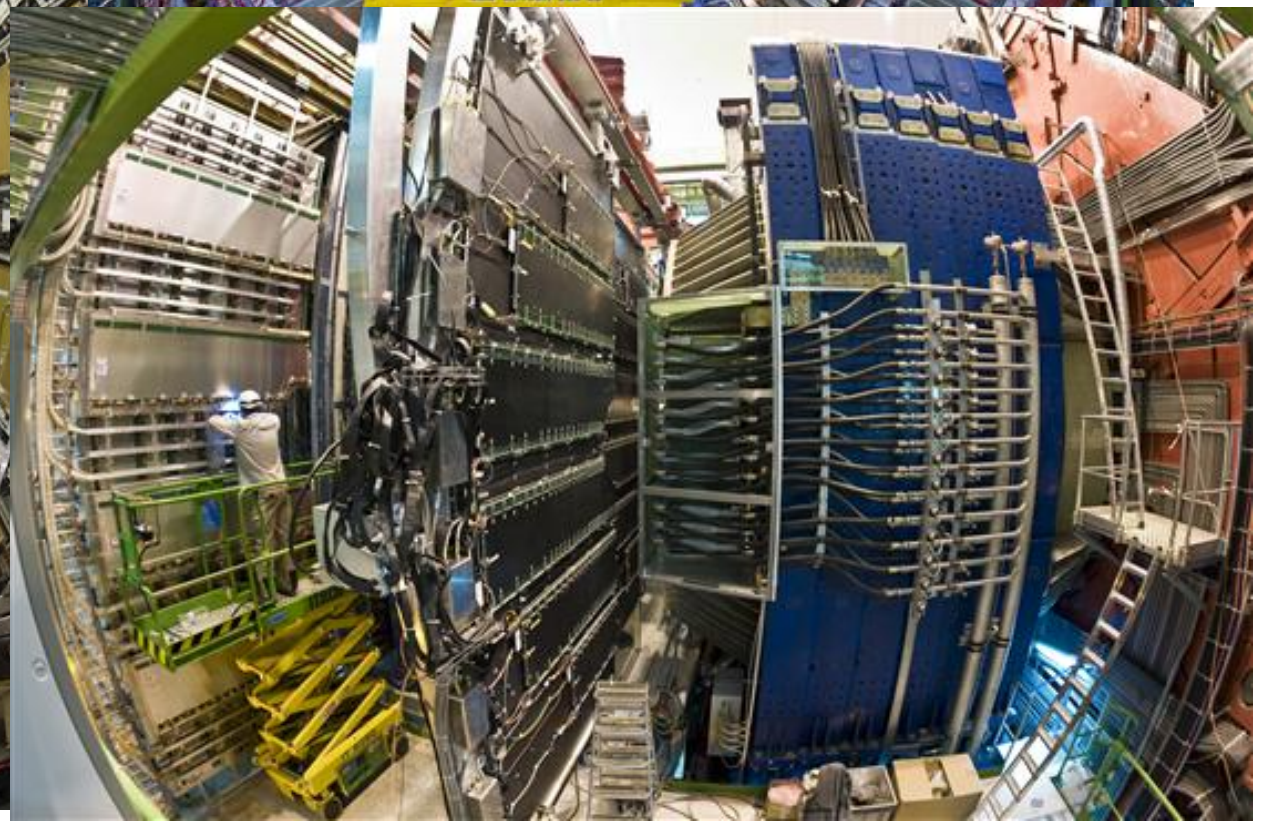
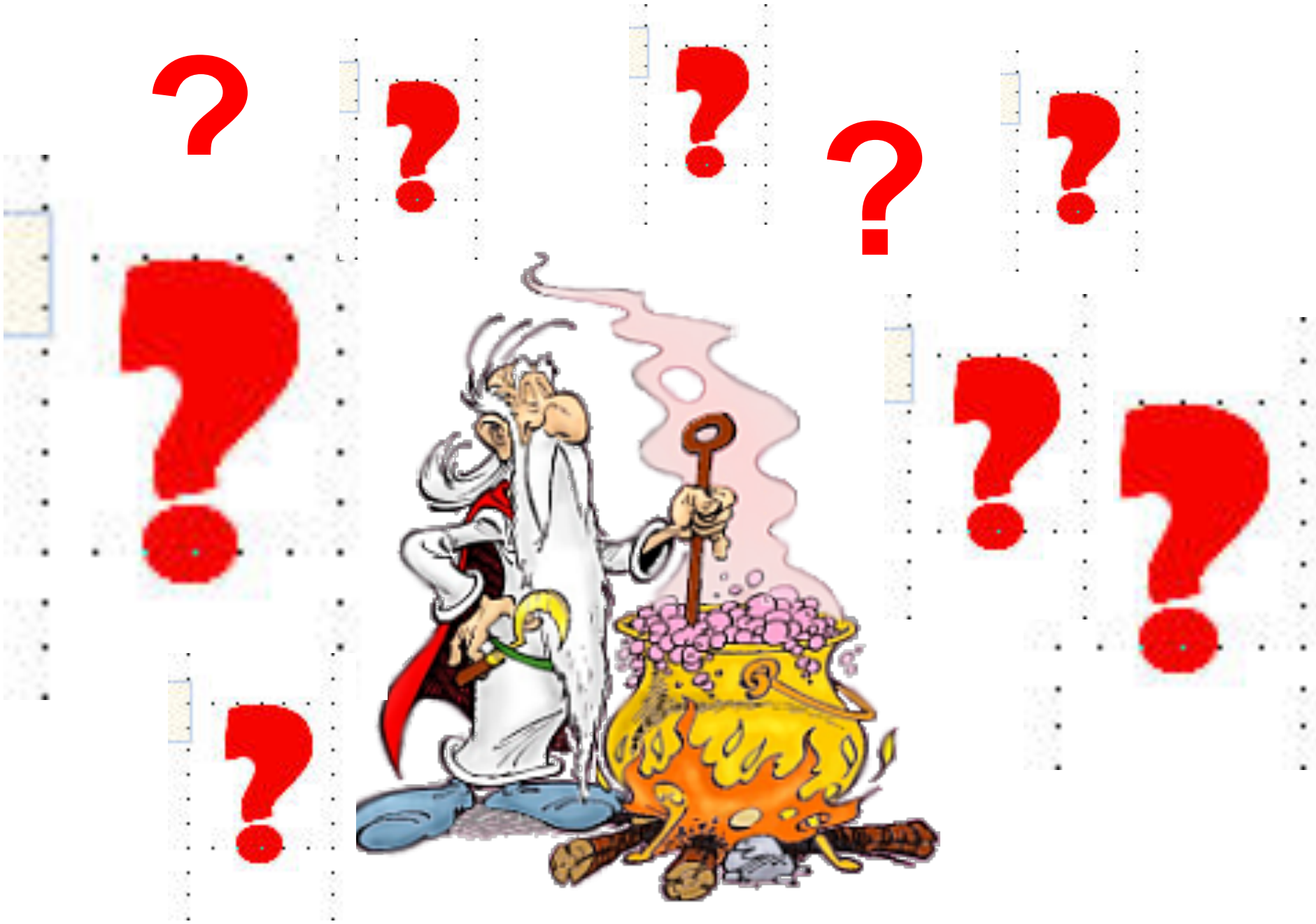
Para quê o LHC?



Gaspar Barreira,
LIP
CERN PTP
Set.2010







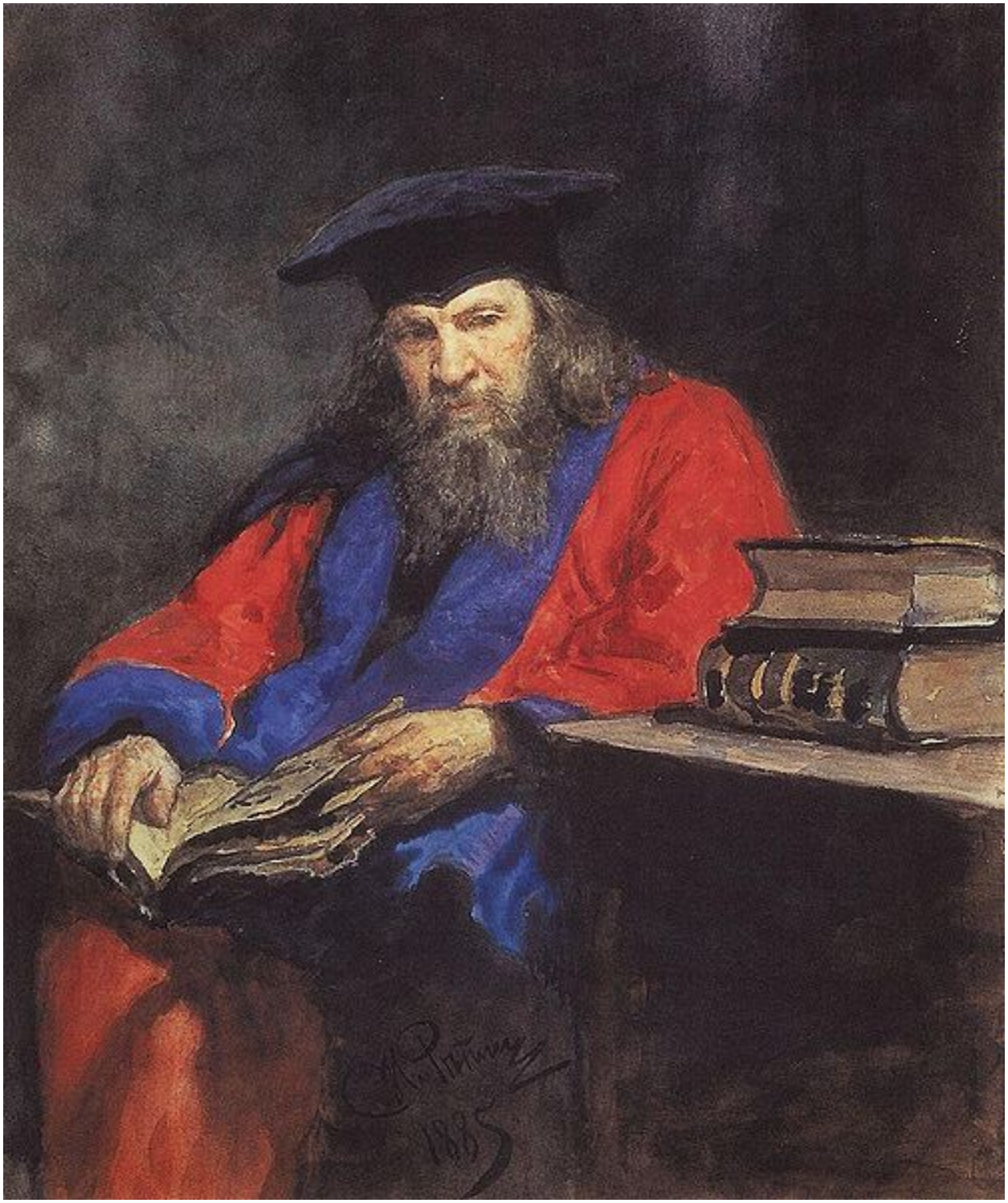
EMPEDOCLES
Agrigentinus

FOGO
AR
AGUA
TERRA

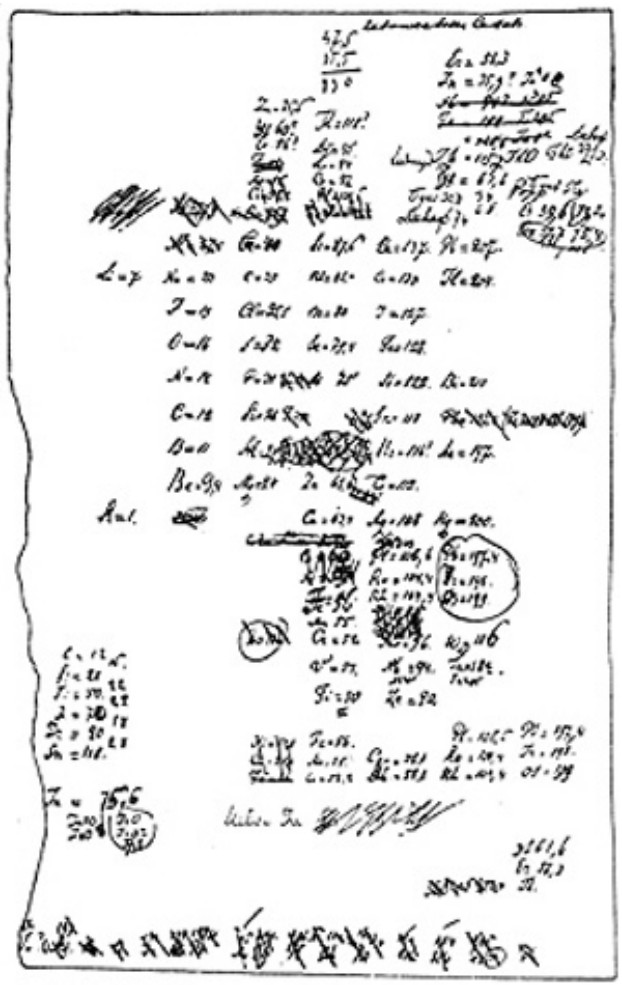
SINE AFFLATV DIVINO. NEMO VNQVAM VIR MAGNVS.
NE LOQUA RIS DE DEO ABSQ. LV. MINE.
TATVM SVCCEDET ALIQVANDO.
EXPE RIEN TIA.
PESTIS LENTE
Malvandum
H. Vrius pinxit.

An Explication of the Characters which are uſed in this Book.

☉ *Gold.*	A. F. *Aqua Fortis.*
☽ *Silver.*	A. R. *Aqua Regis.*
♂ *Iron.*	S. V. *Spirit of Wine.*
☿ *Mercury.*	♎ *Sublimate.*
♃ *Jupiter.*	♍ *Precipitate.*
♀ *Venus.*	♃♃ *Amalgama.*
♄ *Lead.*	▽ *Water.*
♁ *Antimony.*	△ *Fire.*
✻ *Sal armoniac.*	



Dmitri Mendeleiev



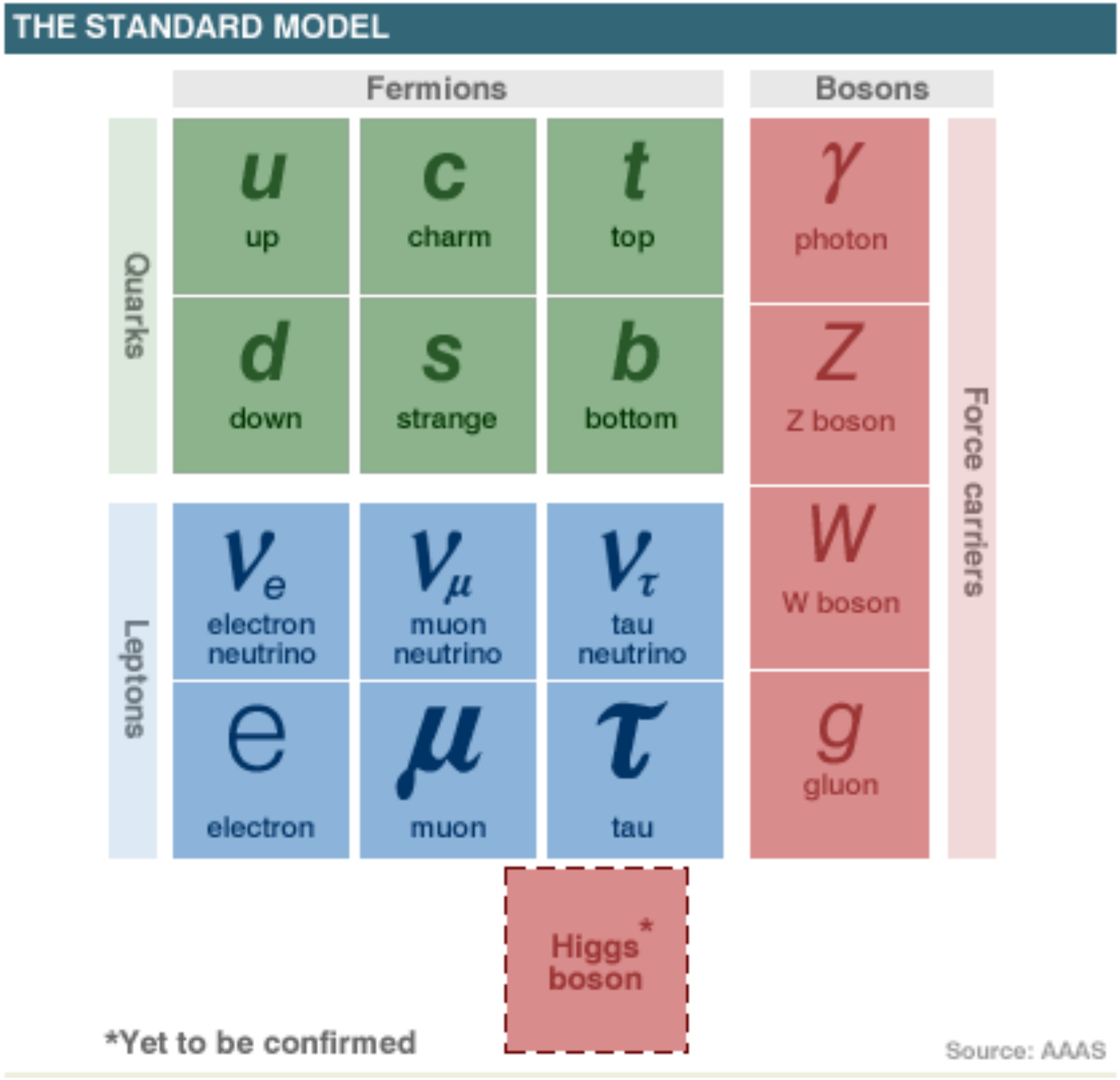
			Ti=50	Zr=90	?[2]=180
			V=51	Nb=94	Ta=182
			Cr=52	Mo=96	W=186
			Mn=55	Rh=104,4[3]	Pt=197,4[4]
			Fe=56	Ru=104,4	Ir=198
			Ni=Co=59	Pd=106,6	Os=199
H=1[5]			Cu=63,4	Ag=108	Hg=200
	Be=9,4	Mg=24	Zn=65,2	Cd=112	
	B=11	Al=27,4	?[6]=68	Ur=116[7]	Au=197?
	C=12	Si=28	?[8]=70	Sn=118	
	N=14	P=31	As=75	Sb=122	Bi=210?
	O=16	S=32	Se=79,4	Te=128?	
	F=19	Cl=35,5	Br=80	J=127[9]	
Li=7	Na=23	K=39	Rb=85,4	Cs=133	Tl=204
		Ca=40	Sr=87,6	Ba=137	Pb=207
		?[10]=45	Ce=92[11]		
		?Er=56	La=94		
		?Yt=60	Di=95		
		?In=75,6	Th=118?		

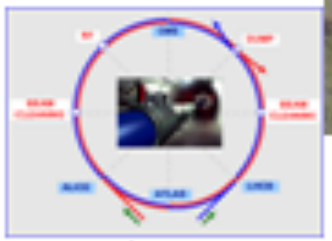
Un physicien C'est un monsieur ou une dame. Ils doivent chercher des choses dans l'ordinateur il travaille dans Un bureau il utilise des outils, tournevis, des clous...

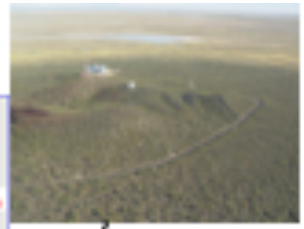
Electrão 1897 John Joseph Thomson.

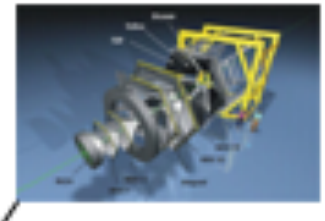
Protão 1886 Eugene Goldstein

Neutrão 1932 James


THE STANDARD MODEL
Fermions
Bosons
Quarks
u
up
c
charm
t
top
d
down
s
strange
b
bottom
Leptons
ν_e
electron neutrino
ν_μ
muon neutrino
ν_τ
tau neutrino
e
electron
μ
muon
τ
tau
γ
photon
Z
Z boson
W
W boson
g
gluon
Force carriers
Higgs boson*
*Yet to be confirmed
Source: AAAS







-2070 M
Sudbury,
Canada

-1100 M
Bulby Mine, UK

-100 M
CERN,CH

AUGER
Pampa Argentina

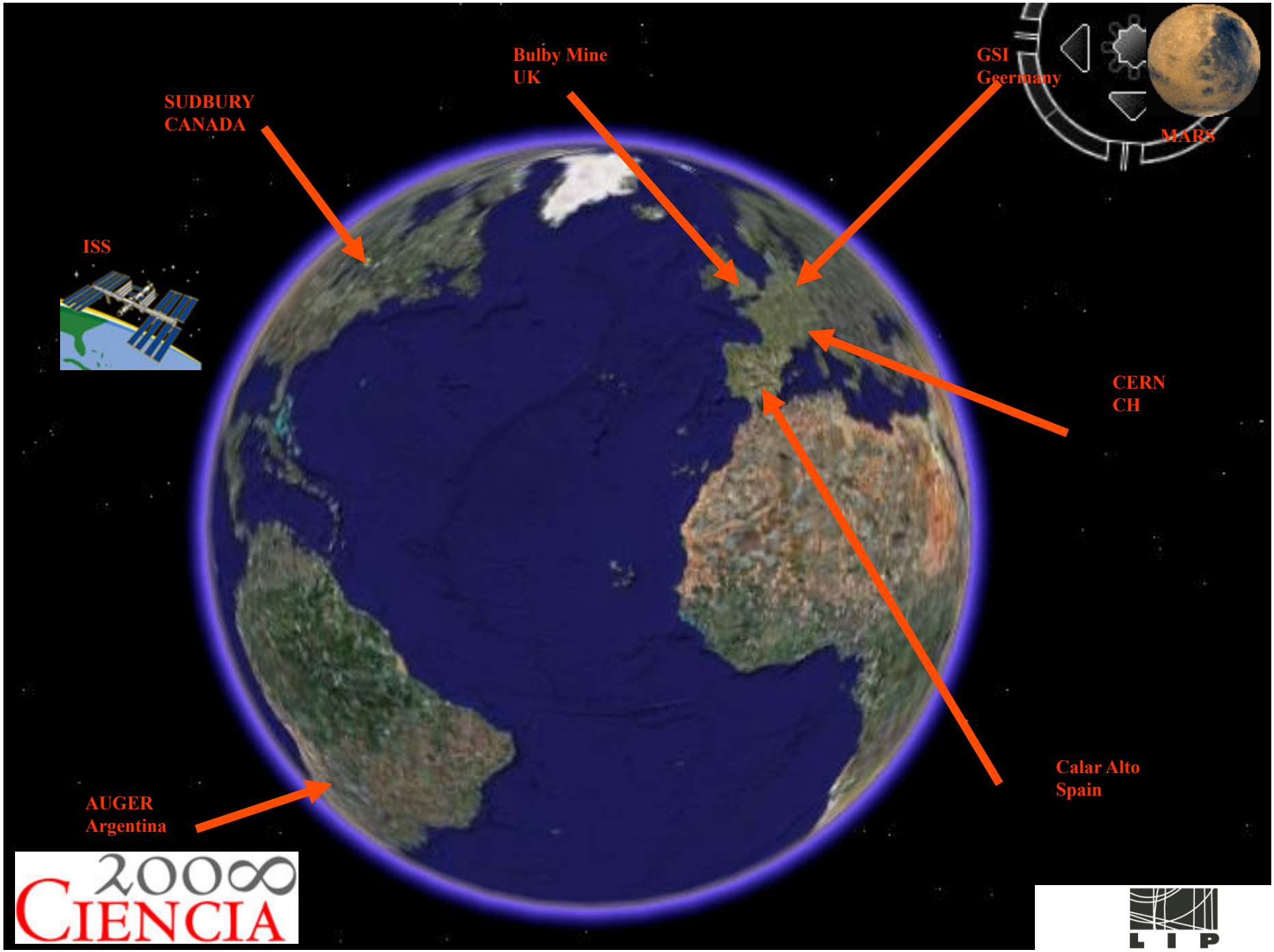
GSI
Germany

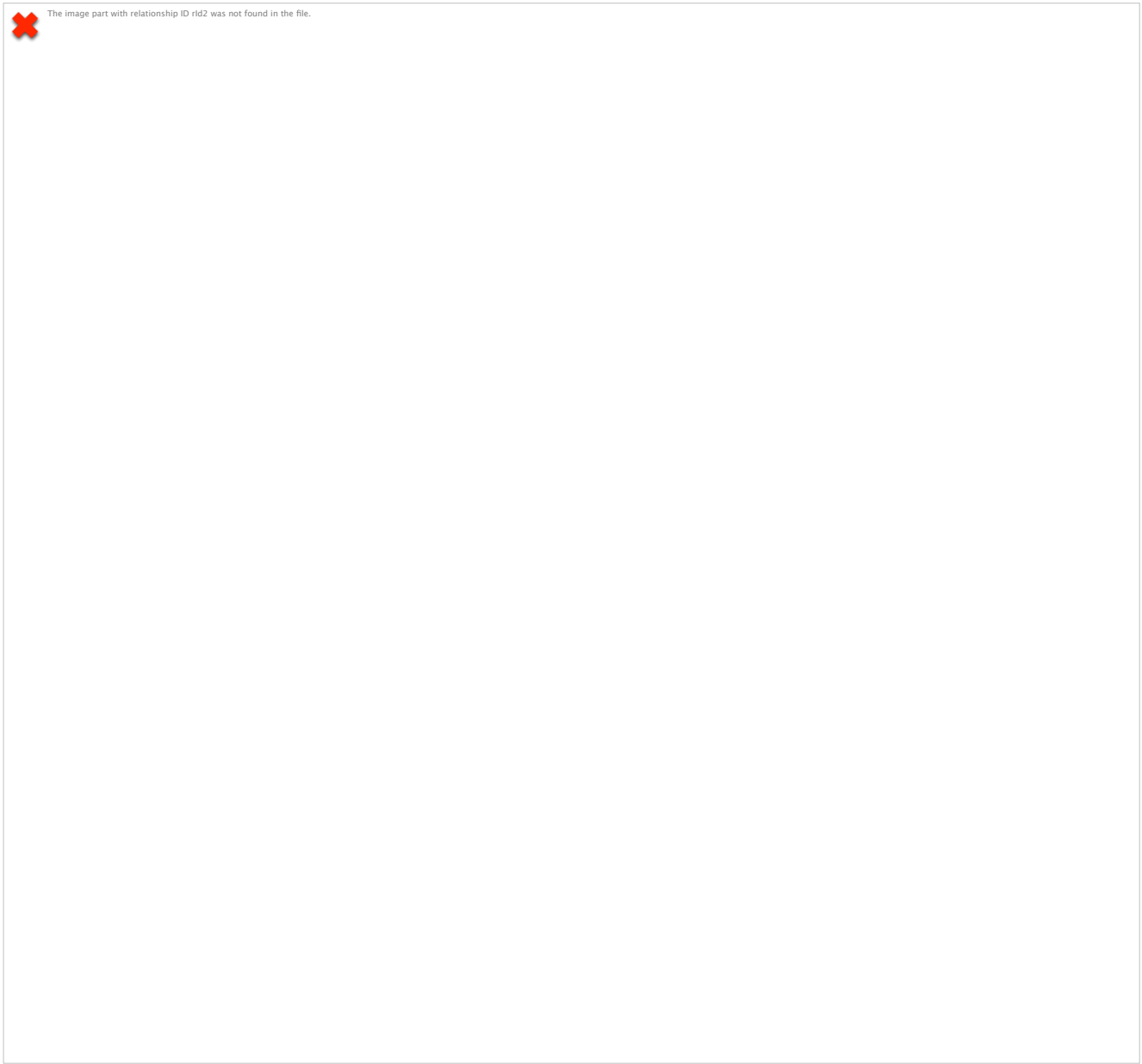
+2168 M
Gaw-CalarAlto
Spain

+200 KM
ISS, Earth
surroundongs

Millions and millions Km away
MARS

2006 CIENCIA


SUDBURY
CANADA
Bulby Mine
UK
GSI
Geermany
MARS
ISS
CERN
CH
Calar Alto
Spain
AUGER
Argentina
2000
CIENCIA
LIP
LABORATÓRIO DE INSTRUMENTAÇÃO E FÍSICA EXPERIMENTAL DE PARTÍCULAS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ZECA AFONSO

Eu vou ser como a Toupeira

Eu vou ser como a toupeira
Que esburaca
Penitência, diz a hidra
Quando à seca
Eu vou ser como a gibóia
Que atormenta
Não há luz que não se veja
Da charneca

The cost of each new U.S. DDG 1000 destroyer nearly doubled to just under $6 billion after the Navy decided to halt the program at just three ships. The ships are being built by Northrop Grumman Corp (NOC.N) and General Dynamics Corp (GD.N), and come with a combat system built by Raytheon Co (RTN.N)..

a *Nimitz*-class carrier powered by two nuclear reactors and four steam turbines is 1,092 feet (333 m) long and costs about $4.5 billion

Segundo o jornal, "com os atrasos ocorridos no início do processo, esse preço (769,3 milhões de euros) disparou para 832,9 milhões de euros, sem juros um aumento de 8%. Com juros, esse valor supera os mil milhões de euro."

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matéria
escura
energia
escura

Energia
Escura

OCEANVS OCCIDENTALIS
PERSICVS SINVS
ARABICVS SINVS
INDICVM PELAGVS
PRASODIS MARE

$$S = \frac{Akc^3}{4\hbar G}$$

$$T = \frac{\hbar c^3}{8\pi kGM}$$

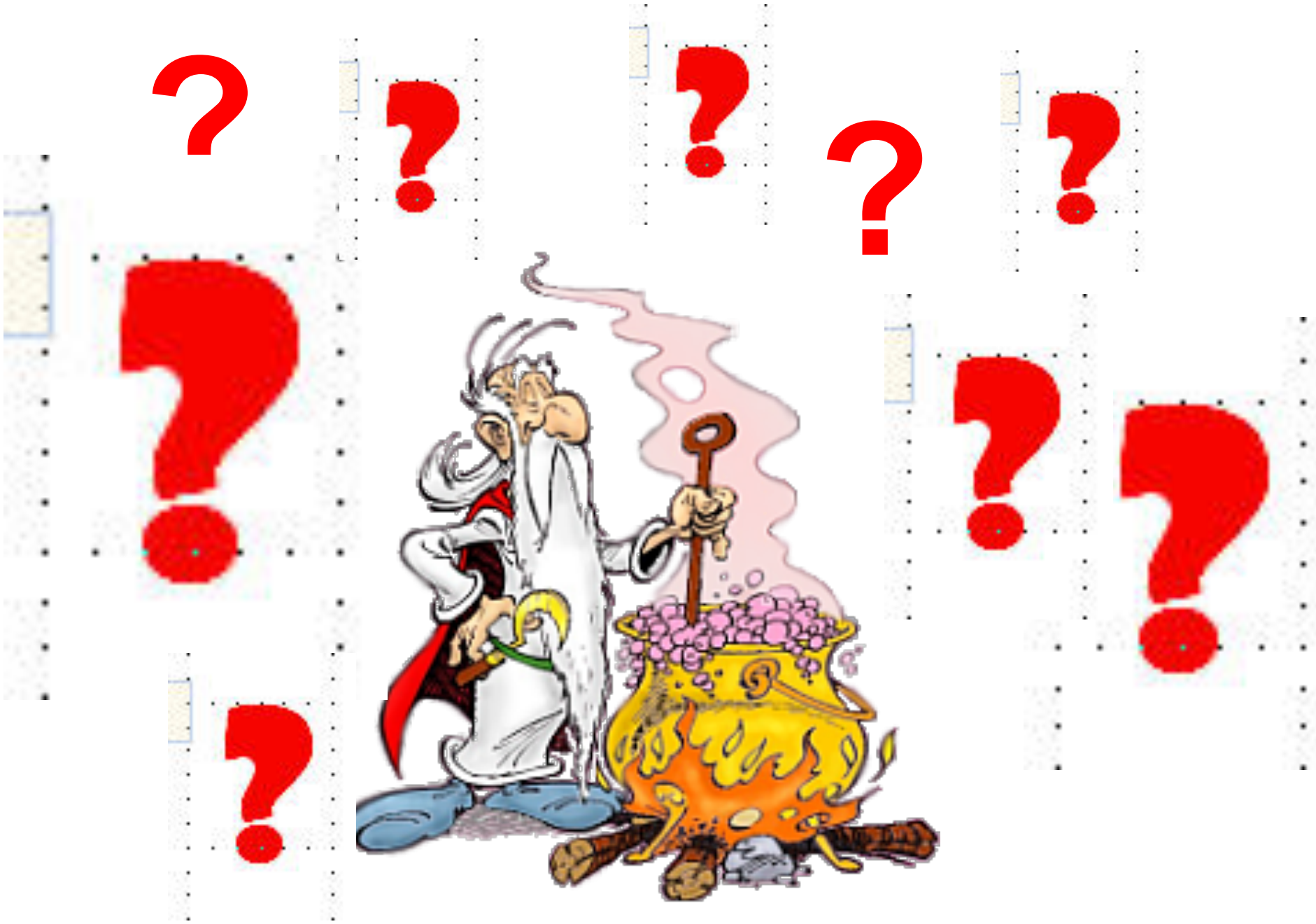
$$\lambda = \frac{h}{mv}$$

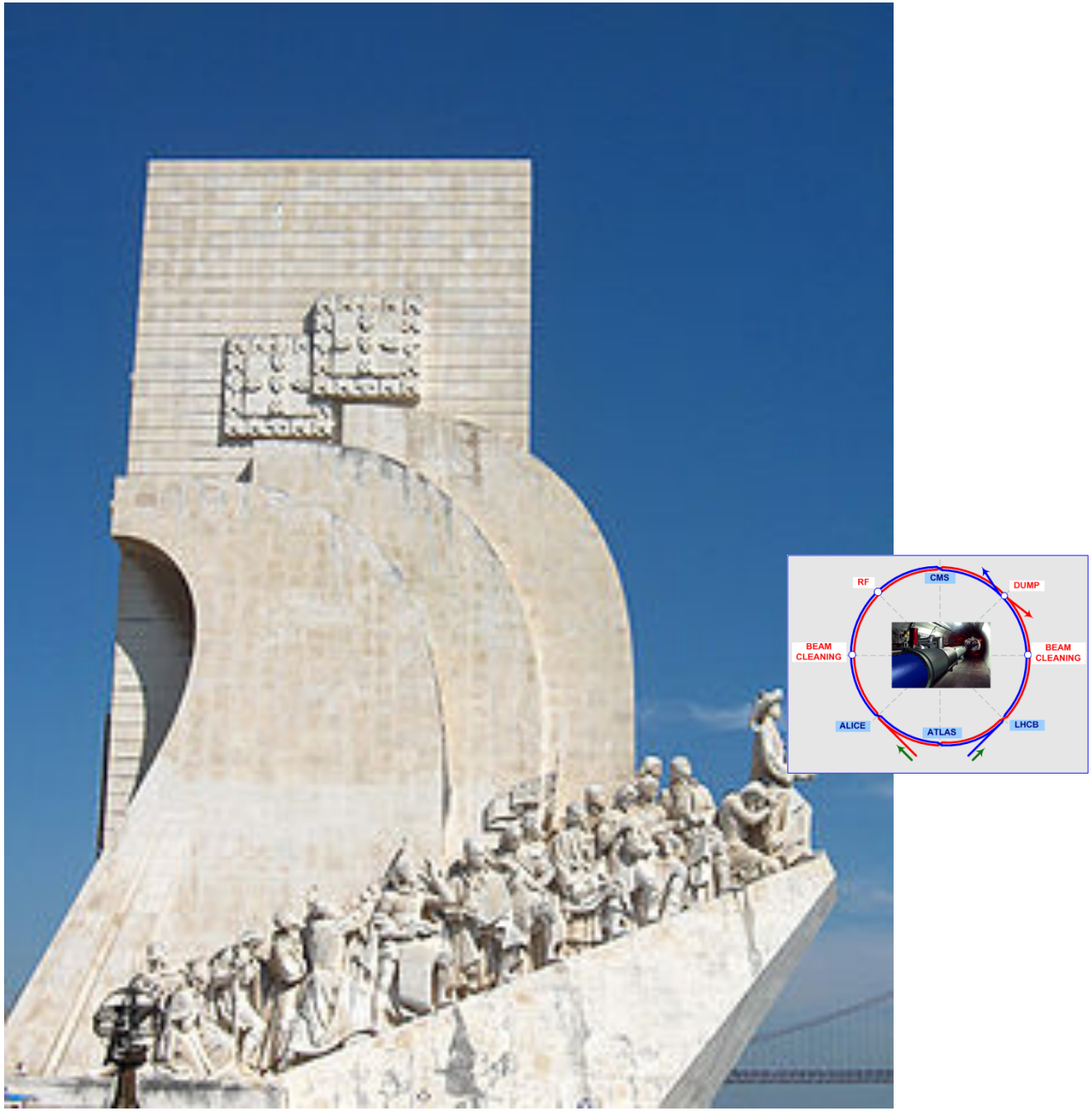
$$R = \frac{m_e k^2 e^4}{4\pi c\hbar^3}$$

$$\nabla_\mu F^{\lambda\mu} = J^\lambda$$

$$E = mc^2$$

Ciência Viva




RF
CMS
DUMP
BEAM CLEANING
BEAM CLEANING
ALICE
ATLAS
LHCB

NAVEGAR
É PRECISO