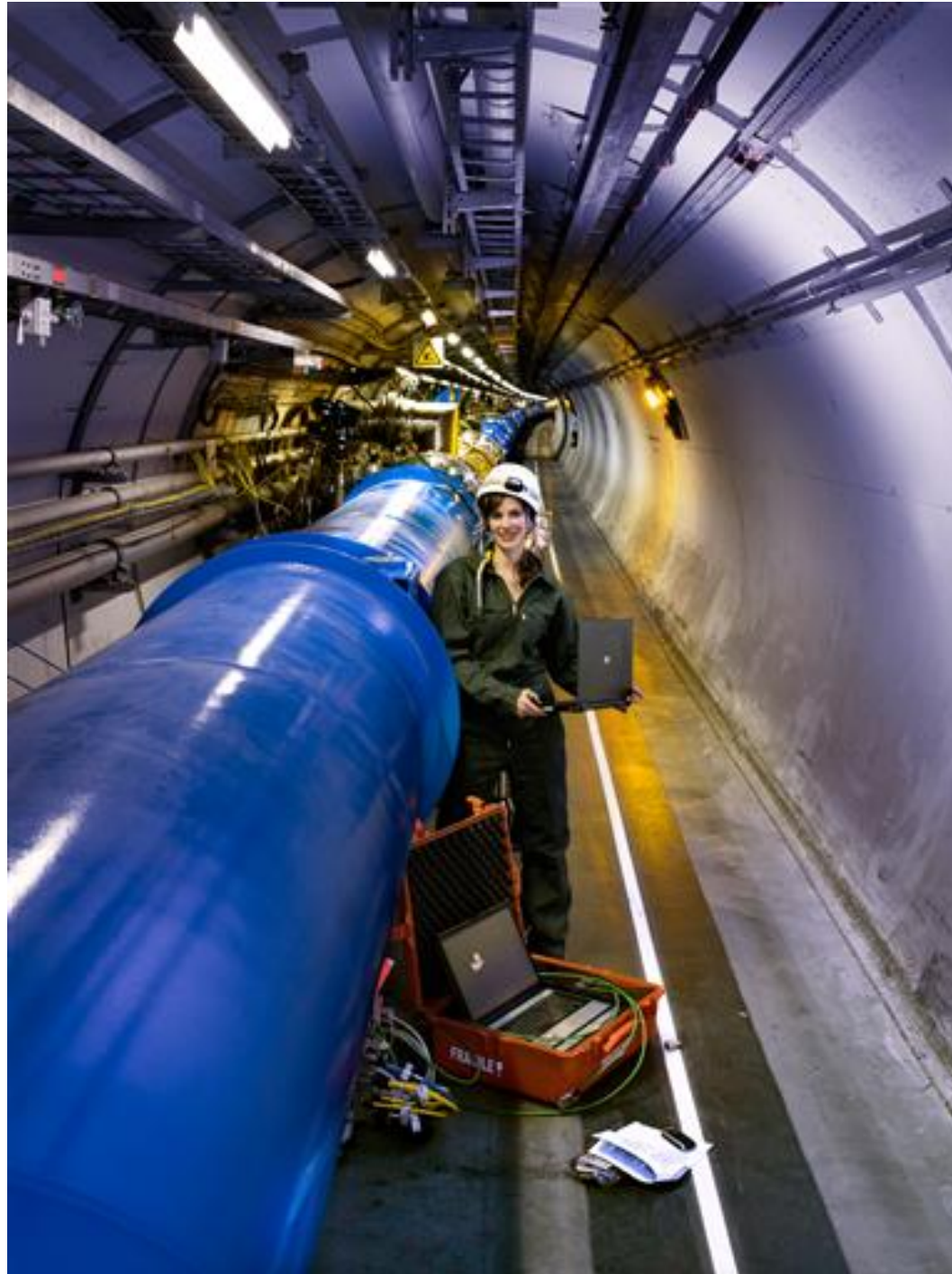
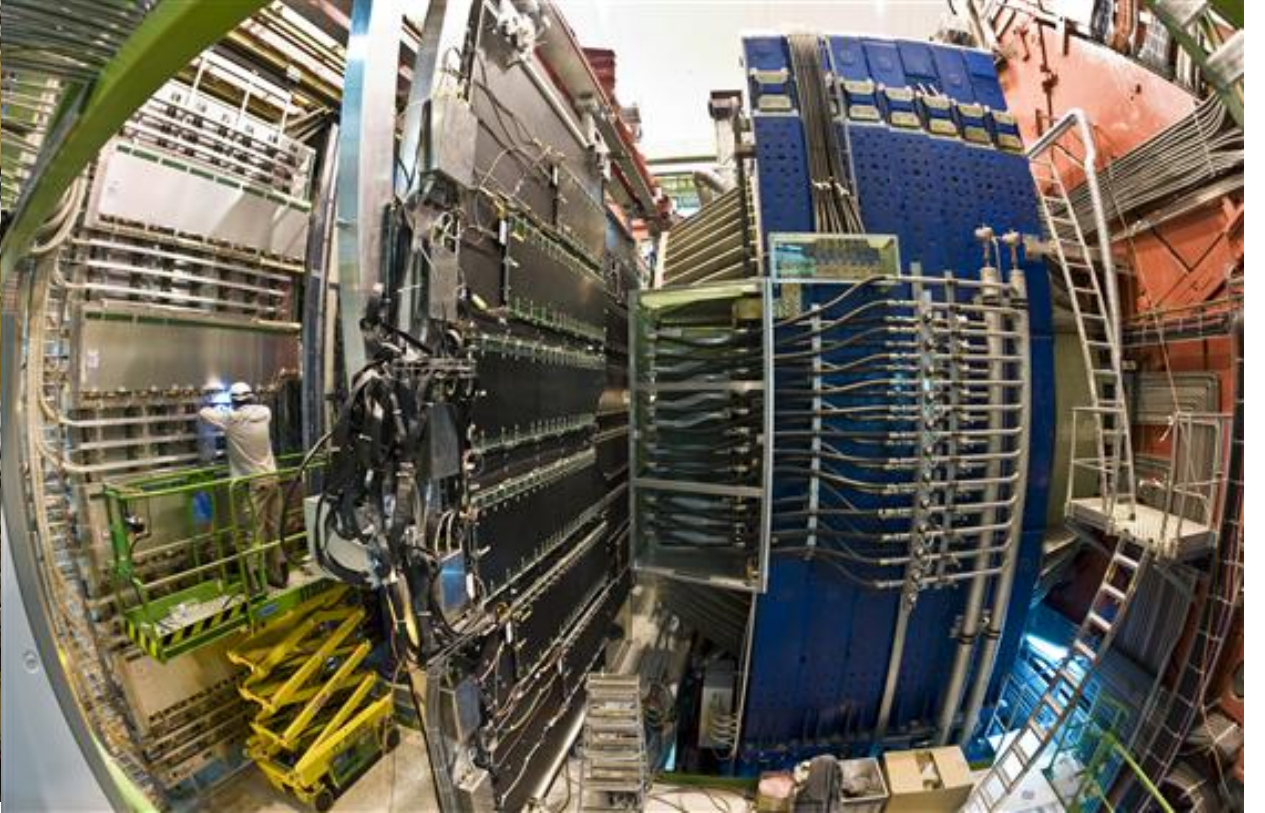
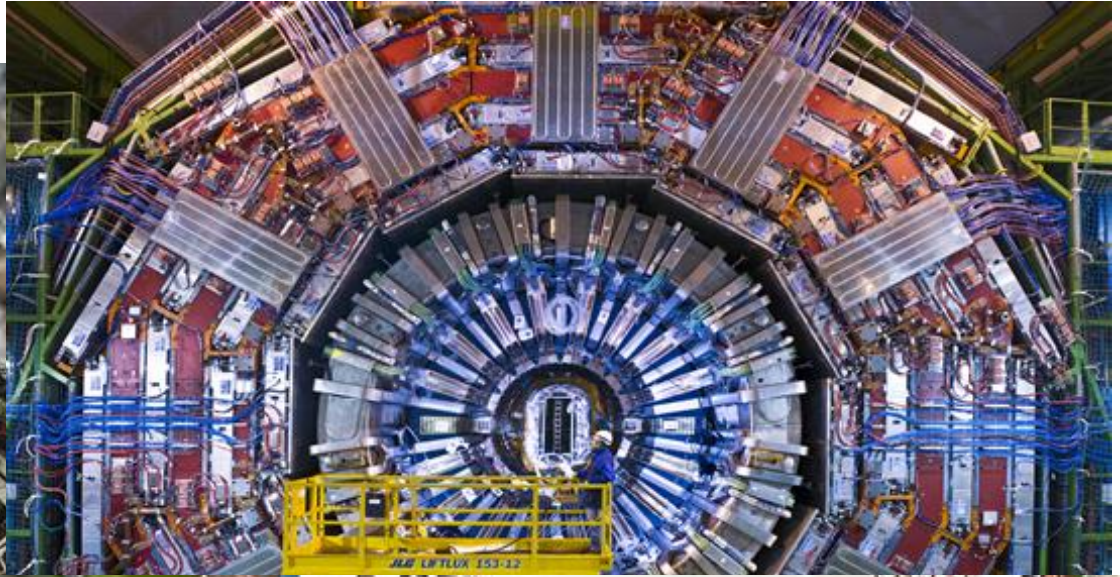


Para
quê o
LHC?



Gaspar
Barreira,
LIP
CERN PTP
Set.2010





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EMPEDOCLES
Agrigentinus



FOGO

AR

AGUA

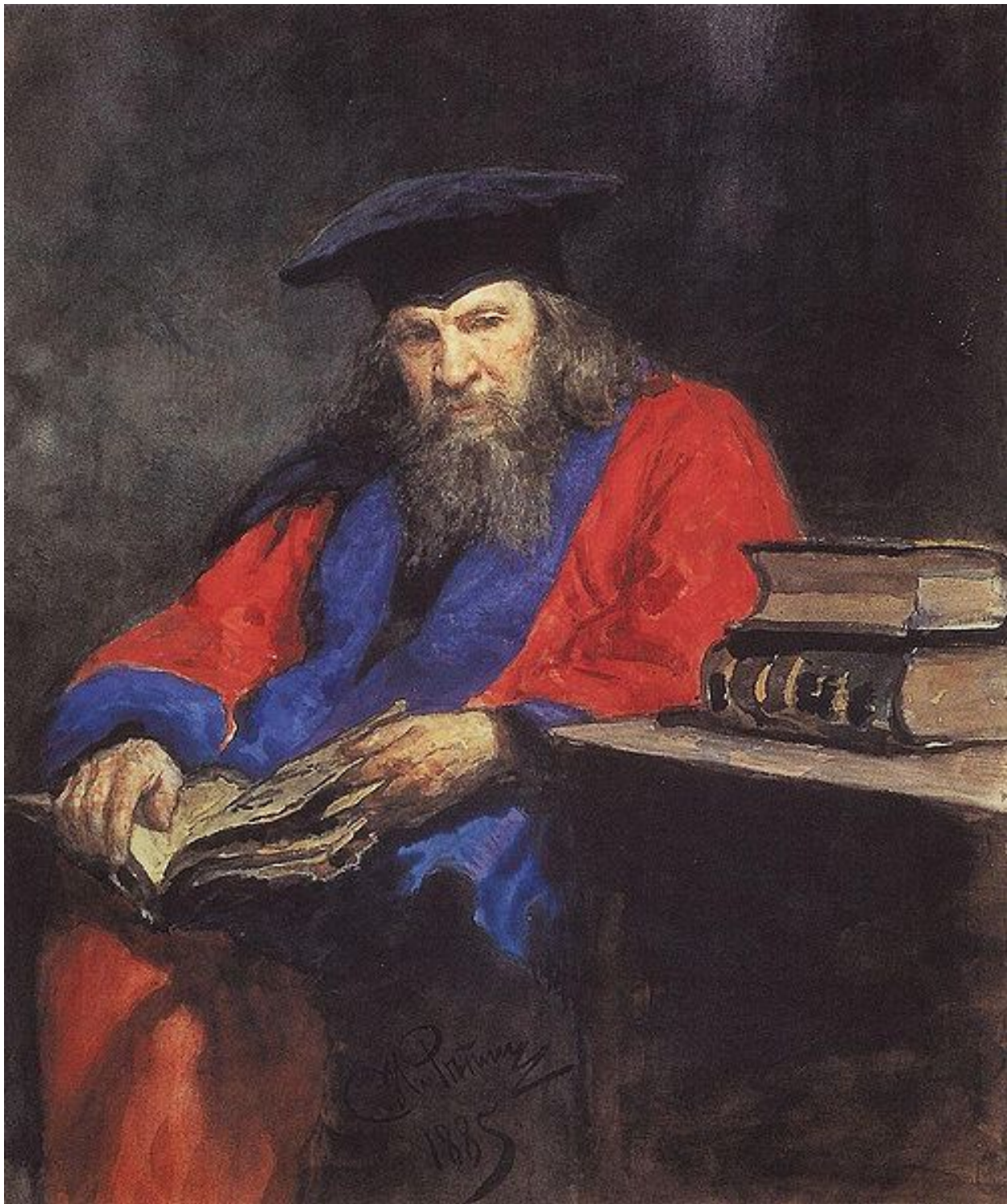
TERRA



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

☉ Gold.
☽ Silver.
♂ Iron.
☿ Mercury.
♃ Jupiter.
♀ Venus.
♄ Lead.
♁ Antimony.
✽ Sal armoniac.

A. F. *Aqua Fortis.*
A. R. *Aqua Regis.*
S. V. *Spirit of Wine.*
☉ Sublimate,
☽ Precipitate.
☿ Amalgama.
▽ Water.
△ Fire.



Dmitri Mendeleiev

Latitudes, etc.

425	Lat. 113
175	Lat. 113.5
250	Lat. 114
2.30	Lat. 114.5
3.45	Lat. 115
4.45	Lat. 115.5
5.45	Lat. 116
6.45	Lat. 116.5
7.45	Lat. 117
8.45	Lat. 117.5
9.45	Lat. 118
10.45	Lat. 118.5
11.45	Lat. 119
12.45	Lat. 119.5
1.30	Lat. 120
2.30	Lat. 120.5
3.30	Lat. 121
4.30	Lat. 121.5
5.30	Lat. 122
6.30	Lat. 122.5
7.30	Lat. 123
8.30	Lat. 123.5
9.30	Lat. 124
10.30	Lat. 124.5
11.30	Lat. 125
12.30	Lat. 125.5
1.15	Lat. 126
2.15	Lat. 126.5
3.15	Lat. 127
4.15	Lat. 127.5
5.15	Lat. 128
6.15	Lat. 128.5
7.15	Lat. 129
8.15	Lat. 129.5
9.15	Lat. 130
10.15	Lat. 130.5
11.15	Lat. 131
12.15	Lat. 131.5
1.00	Lat. 132
2.00	Lat. 132.5
3.00	Lat. 133
4.00	Lat. 133.5
5.00	Lat. 134
6.00	Lat. 134.5
7.00	Lat. 135
8.00	Lat. 135.5
9.00	Lat. 136
10.00	Lat. 136.5
11.00	Lat. 137
12.00	Lat. 137.5
1.00	Lat. 138
2.00	Lat. 138.5
3.00	Lat. 139
4.00	Lat. 139.5
5.00	Lat. 140
6.00	Lat. 140.5
7.00	Lat. 141
8.00	Lat. 141.5
9.00	Lat. 142
10.00	Lat. 142.5
11.00	Lat. 143
12.00	Lat. 143.5
1.00	Lat. 144
2.00	Lat. 144.5
3.00	Lat. 145
4.00	Lat. 145.5
5.00	Lat. 146
6.00	Lat. 146.5
7.00	Lat. 147
8.00	Lat. 147.5
9.00	Lat. 148
10.00	Lat. 148.5
11.00	Lat. 149
12.00	Lat. 149.5
1.00	Lat. 150
2.00	Lat. 150.5
3.00	Lat. 151
4.00	Lat. 151.5
5.00	Lat. 152
6.00	Lat. 152.5
7.00	Lat. 153
8.00	Lat. 153.5
9.00	Lat. 154
10.00	Lat. 154.5
11.00	Lat. 155
12.00	Lat. 155.5
1.00	Lat. 156
2.00	Lat. 156.5
3.00	Lat. 157
4.00	Lat. 157.5
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6.00	Lat. 158.5
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8.00	Lat. 159.5
9.00	Lat. 160
10.00	Lat. 160.5
11.00	Lat. 161
12.00	Lat. 161.5
1.00	Lat. 162
2.00	Lat. 162.5
3.00	Lat. 163
4.00	Lat. 163.5
5.00	Lat. 164
6.00	Lat. 164.5
7.00	Lat. 165
8.00	Lat. 165.5
9.00	Lat. 166
10.00	Lat. 166.5
11.00	Lat. 167
12.00	Lat. 167.5
1.00	Lat. 168
2.00	Lat. 168.5
3.00	Lat. 169
4.00	Lat. 169.5
5.00	Lat. 170
6.00	Lat. 170.5
7.00	Lat. 171
8.00	Lat. 171.5
9.00	Lat. 172
10.00	Lat. 172.5
11.00	Lat. 173
12.00	Lat. 173.5
1.00	Lat. 174
2.00	Lat. 174.5
3.00	Lat. 175
4.00	Lat. 175.5
5.00	Lat. 176
6.00	Lat. 176.5
7.00	Lat. 177
8.00	Lat. 177.5
9.00	Lat. 178
10.00	Lat. 178.5
11.00	Lat. 179
12.00	Lat. 179.5
1.00	Lat. 180
2.00	Lat. 180.5
3.00	Lat. 181
4.00	Lat. 181.5
5.00	Lat. 182
6.00	Lat. 182.5
7.00	Lat. 183
8.00	Lat. 183.5
9.00	Lat. 184
10.00	Lat. 184.5
11.00	Lat. 185
12.00	Lat. 185.5
1.00	Lat. 186
2.00	Lat. 186.5
3.00	Lat. 187
4.00	Lat. 187.5
5.00	Lat. 188
6.00	Lat. 188.5
7.00	Lat. 189
8.00	Lat. 189.5
9.00	Lat. 190
10.00	Lat. 190.5
11.00	Lat. 191
12.00	Lat. 191.5
1.00	Lat. 192
2.00	Lat. 192.5
3.00	Lat. 193
4.00	Lat. 193.5
5.00	Lat. 194
6.00	Lat. 194.5
7.00	Lat. 195
8.00	Lat. 195.5
9.00	Lat. 196
10.00	Lat. 196.5
11.00	Lat. 197
12.00	Lat. 197.5
1.00	Lat. 198
2.00	Lat. 198.5
3.00	Lat. 199
4.00	Lat. 199.5
5.00	Lat. 200

201.6
15.2

			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	γ photon	Force carriers
	d down	s strange	b bottom	Z Z boson	
Leptons	ν_e electron neutrino	ν_μ muon neutrino	ν_τ tau neutrino	W W boson	
	e electron	μ muon	τ tau	g gluon	

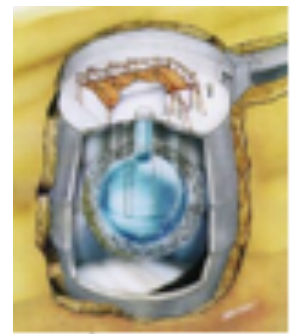
Higgs^{*}
boson

*Yet to be confirmed

Source: AAAS



Laboratorio de Instrumentación y Física Experimental de Partículas



-2070 M
Sudbury,
Canada



-100 M
CERN,CH

AUGER
Pampa Argentina

GSI
Germany

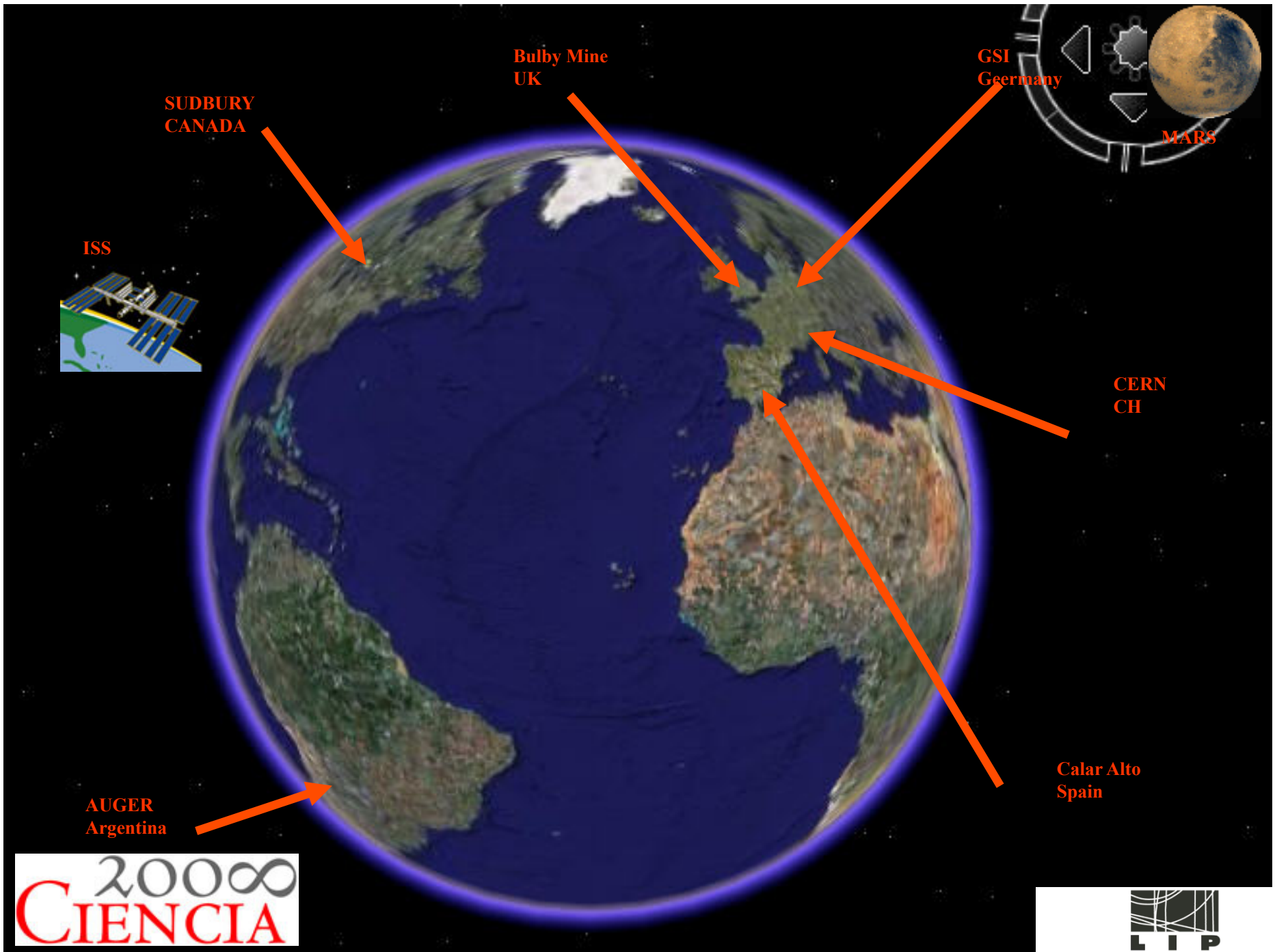
+2168 M
Gaw-CalarAlto
Spain

-1100 M
Bulby Mine, UK

+200 KM
ISS, Earth
surroundongs

Millions and millions Km away
MARS

2000∞
CIENCIA



SUDBURY
CANADA

Bulby Mine
UK

GSI
Germany

CERN
CH

Calar Alto
Spain

ISS

MARS

2000
CIENCIA

LIP



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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](#))..

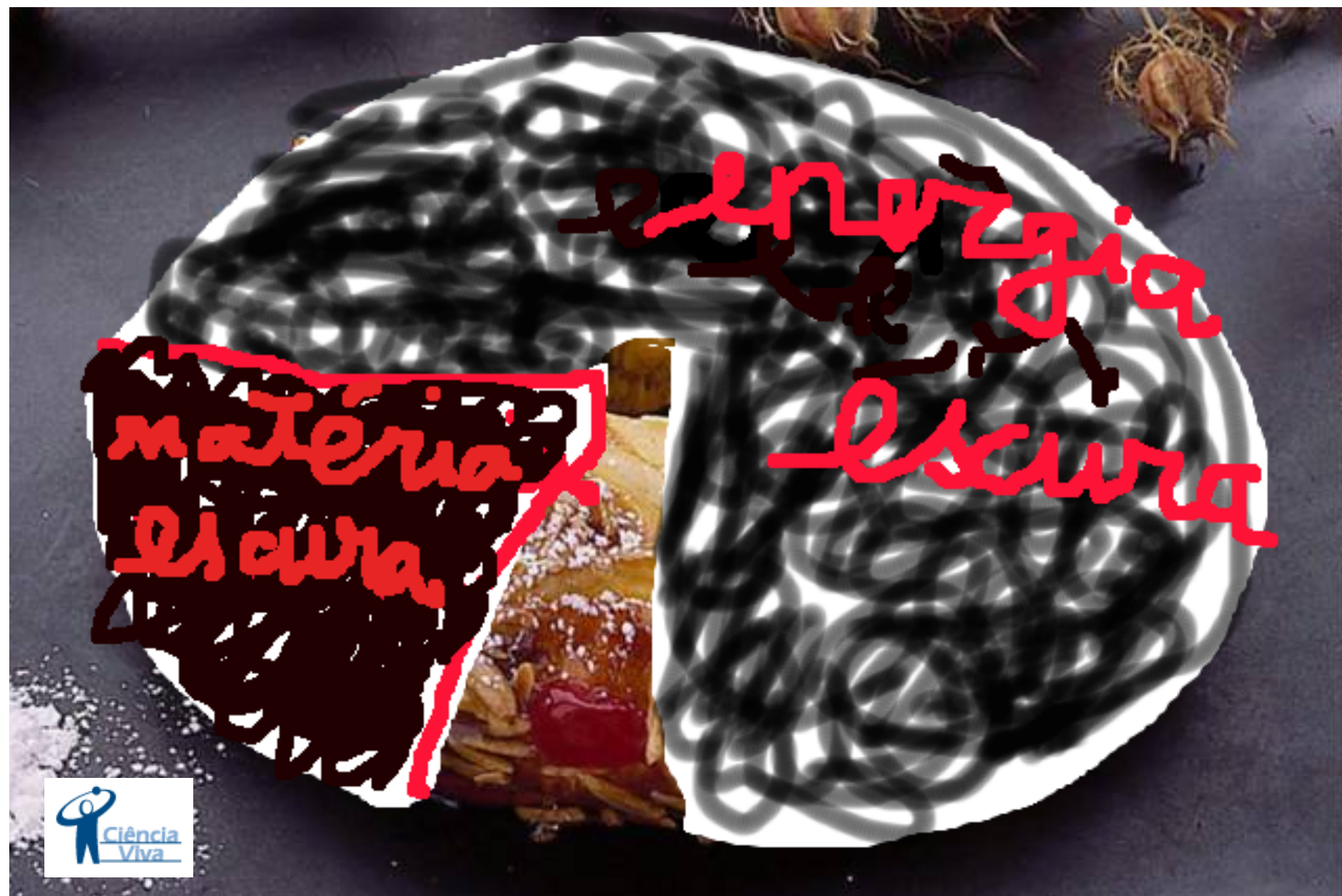
a [Nimitz-class](#) carrier powered by two [nuclear reactors](#) and four [steam turbines](#) is 1,092 feet (333 m) long and costs about \$4.5 billion

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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Energia
Escura







LB

TOTIVS ORBIS HABITABILIS

BREVIS DESCRIPTIO

NII



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

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

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

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



$$\Delta E \Delta x = \hbar \Delta p \Delta x$$

$$E = mc^2$$

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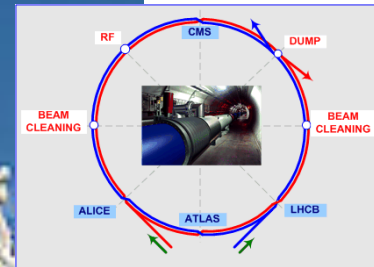
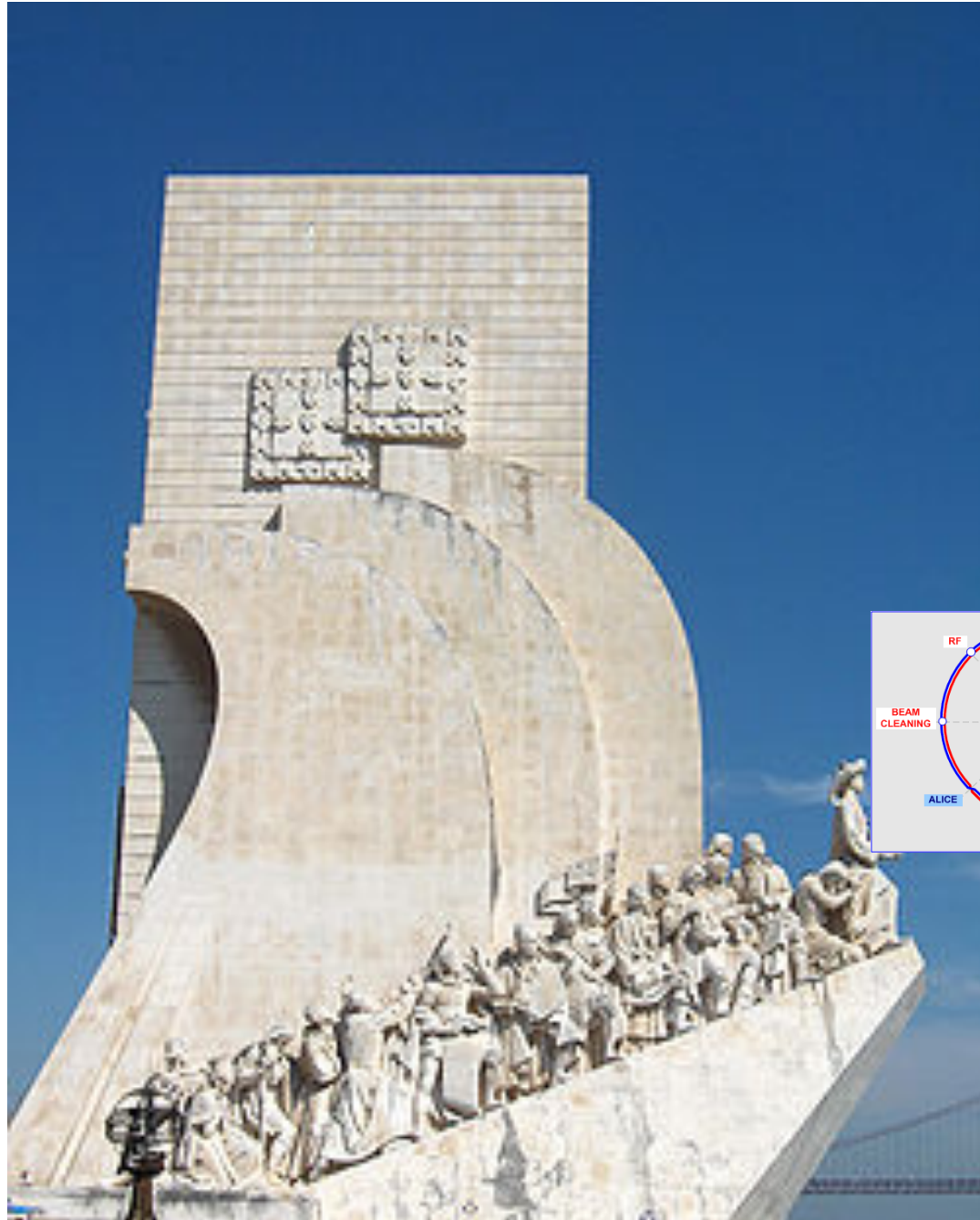
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NAVEGAR
É PRECISO

