

10019 Physiciens

PARTENT VERS

UN MONDE
INEXPLORE'

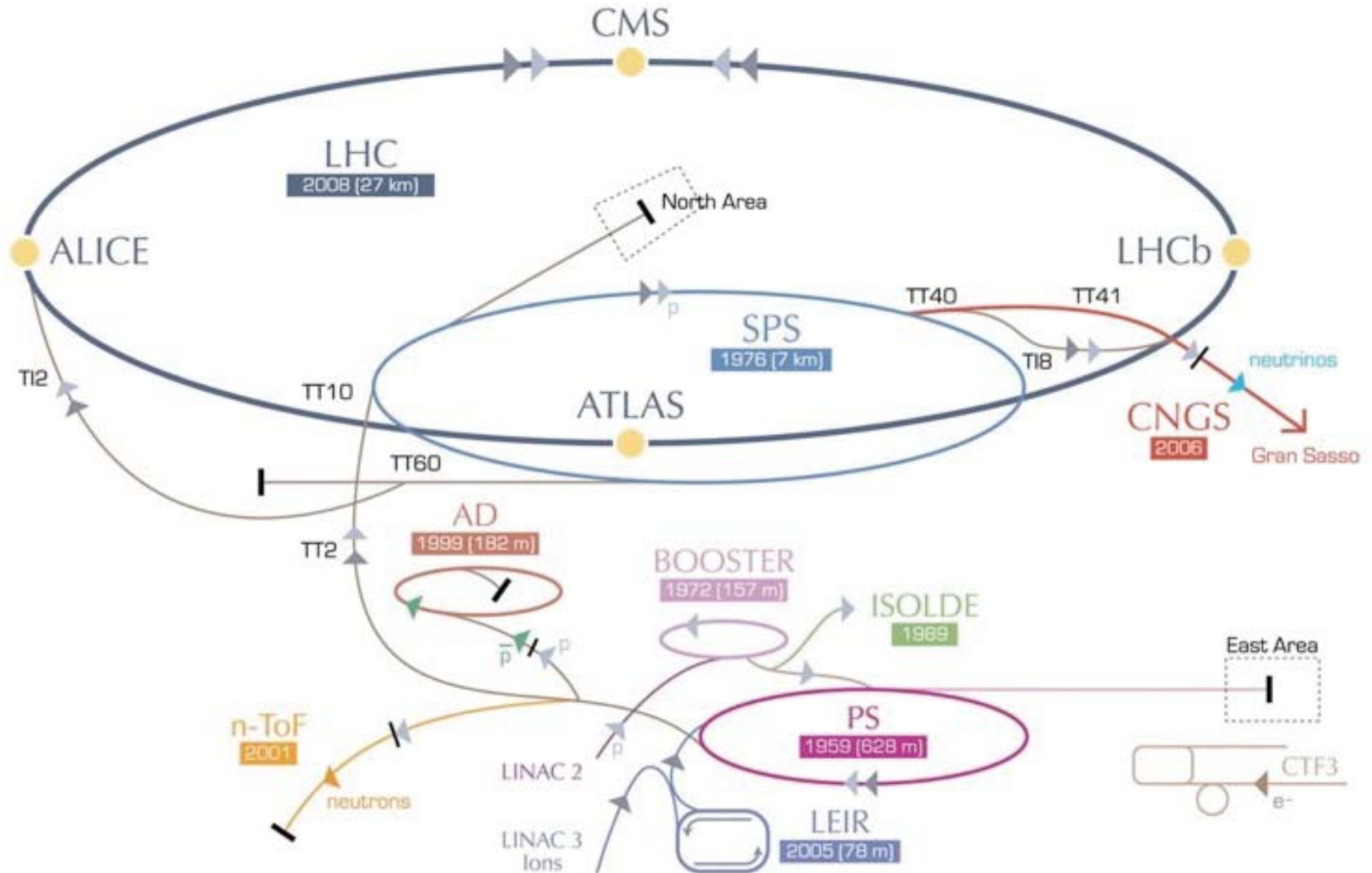


FOTORESEARCH





CERN's accelerator complex







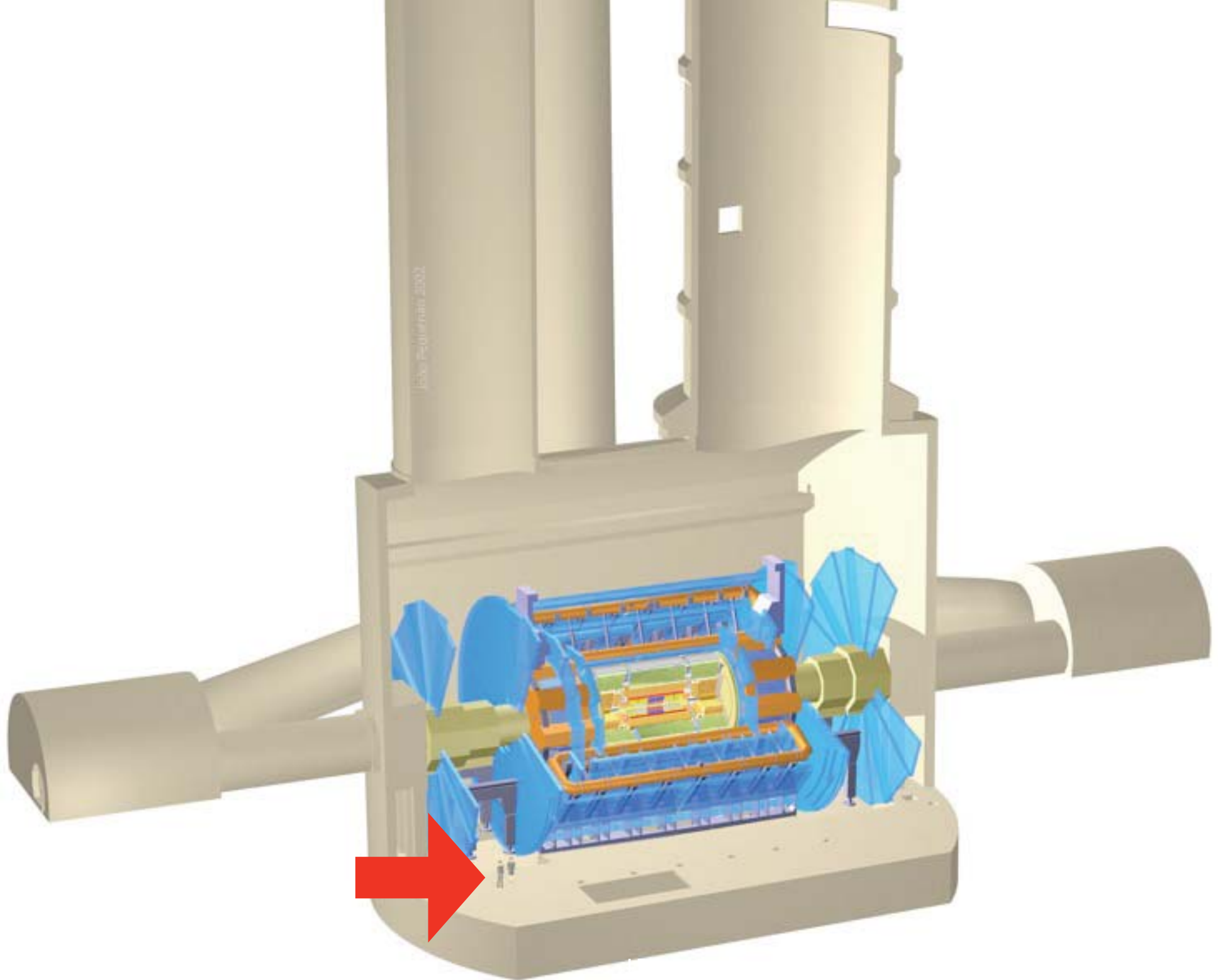




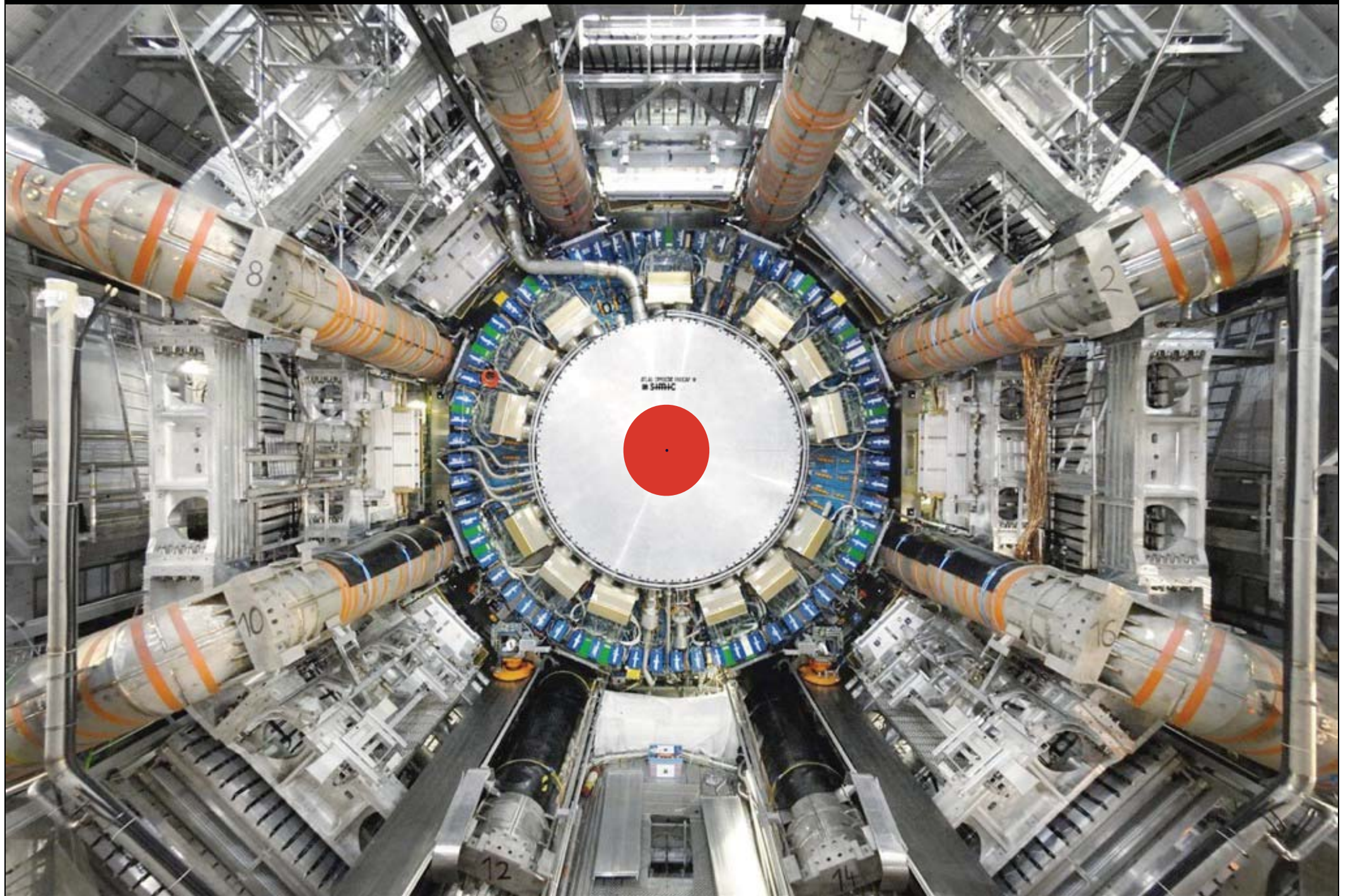


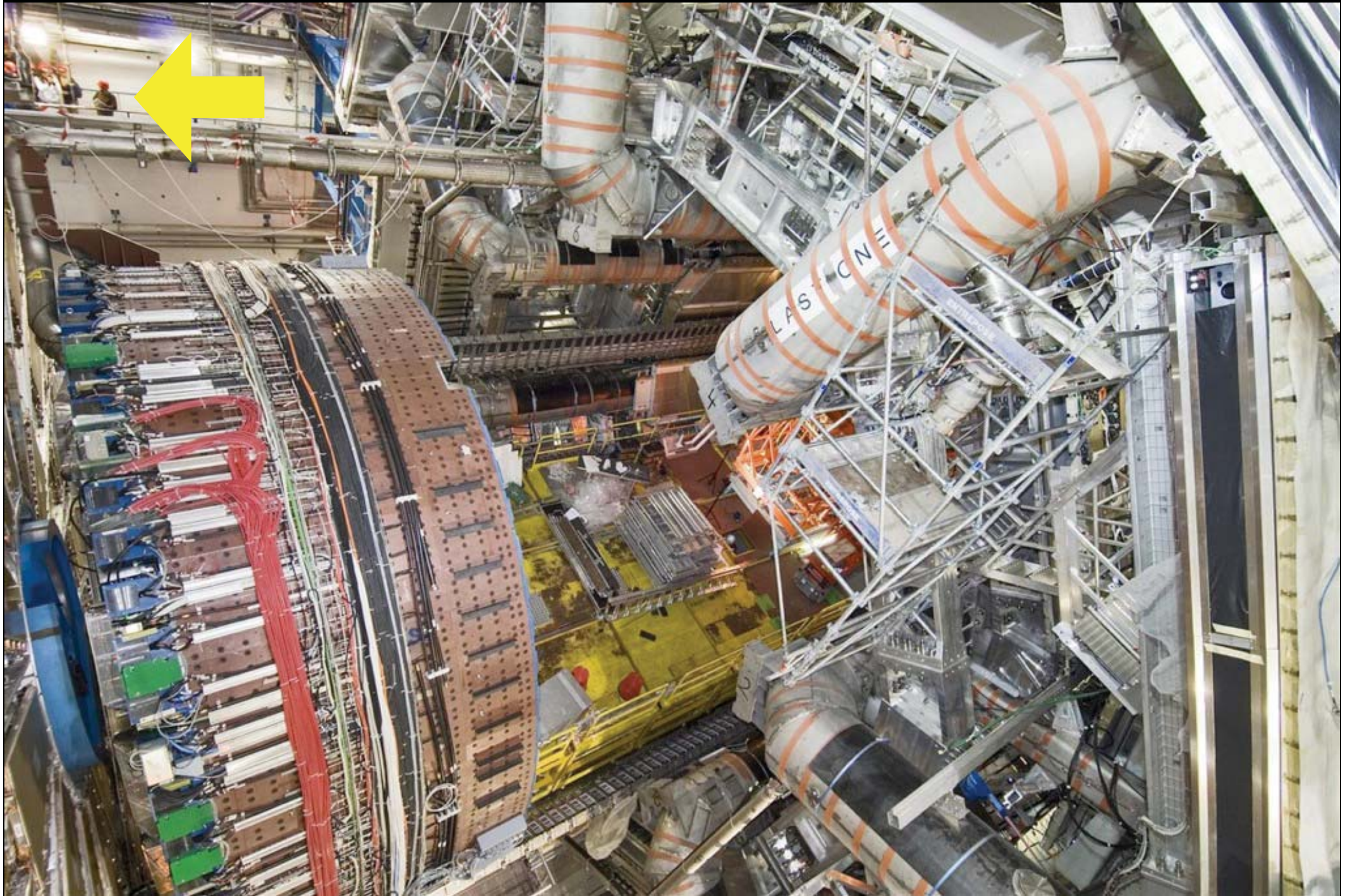








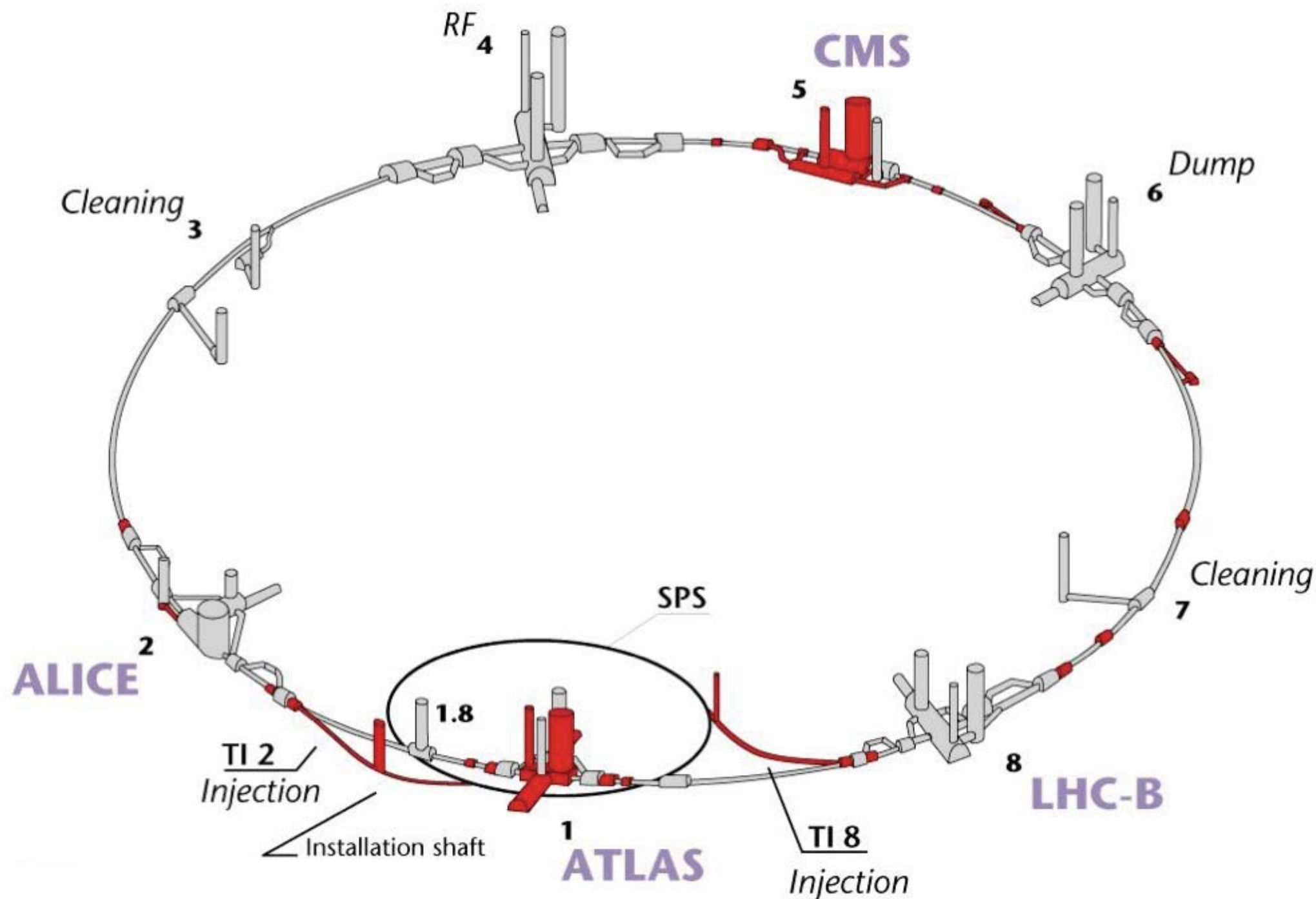




***UNDER-
GROUND***

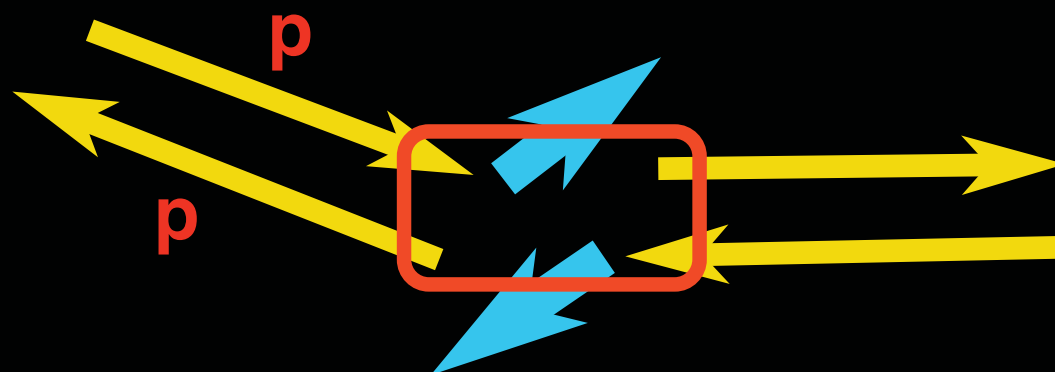
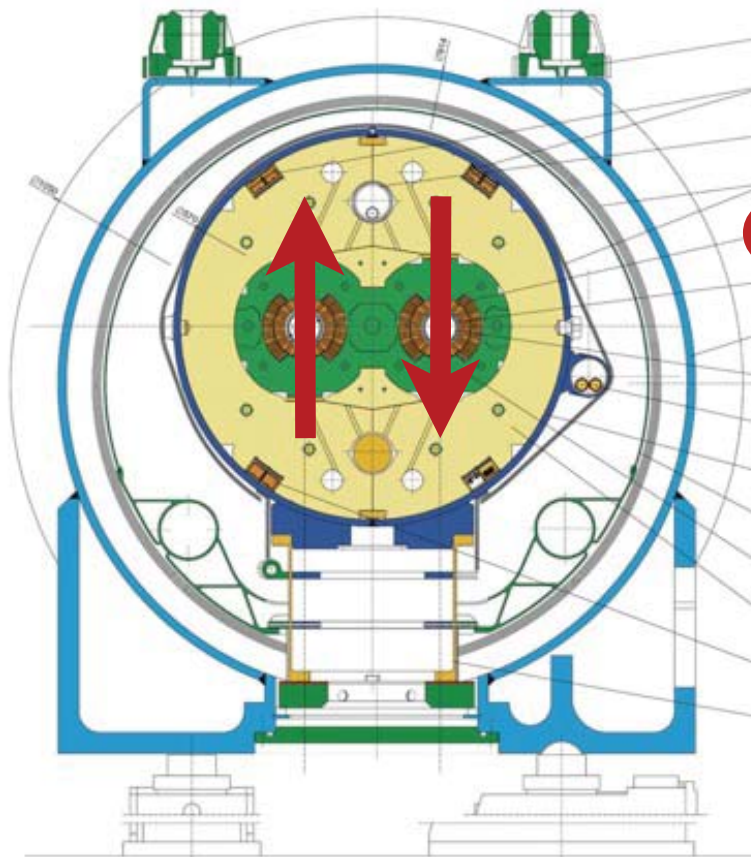
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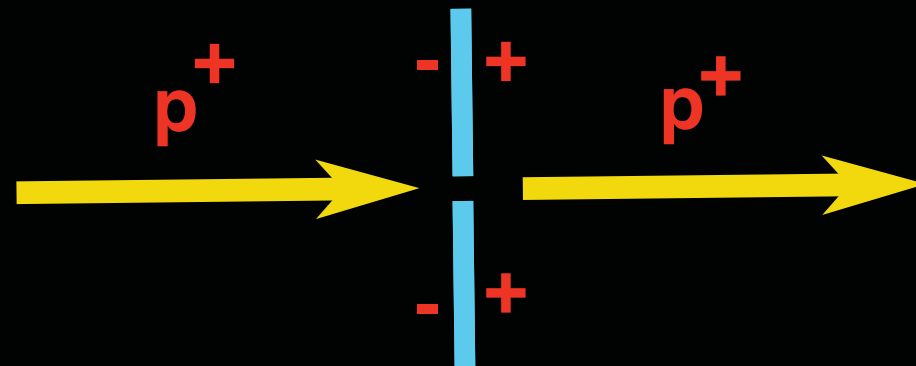
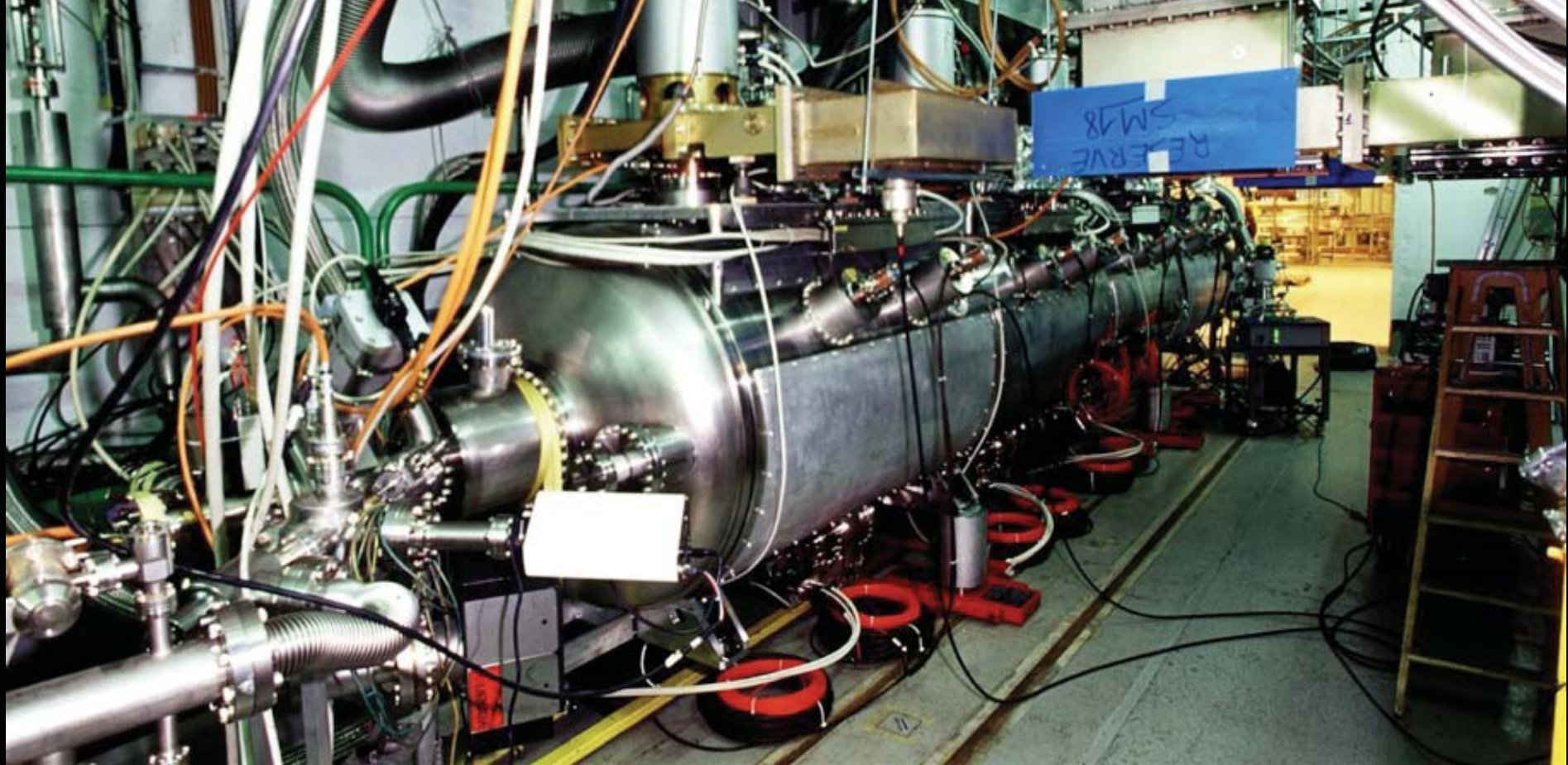


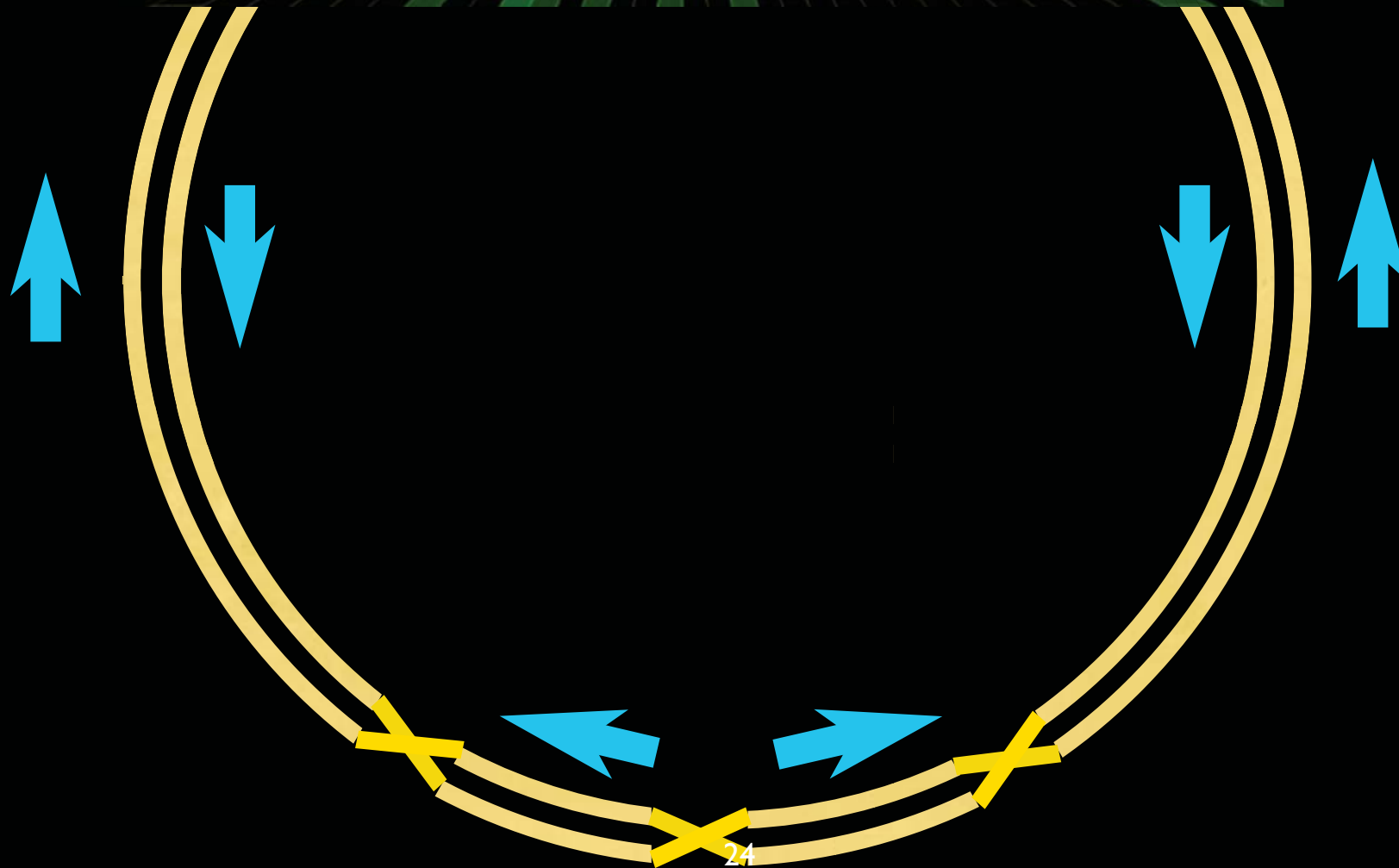


LHC DIPOLE : STANDARD CROSS-SECTION

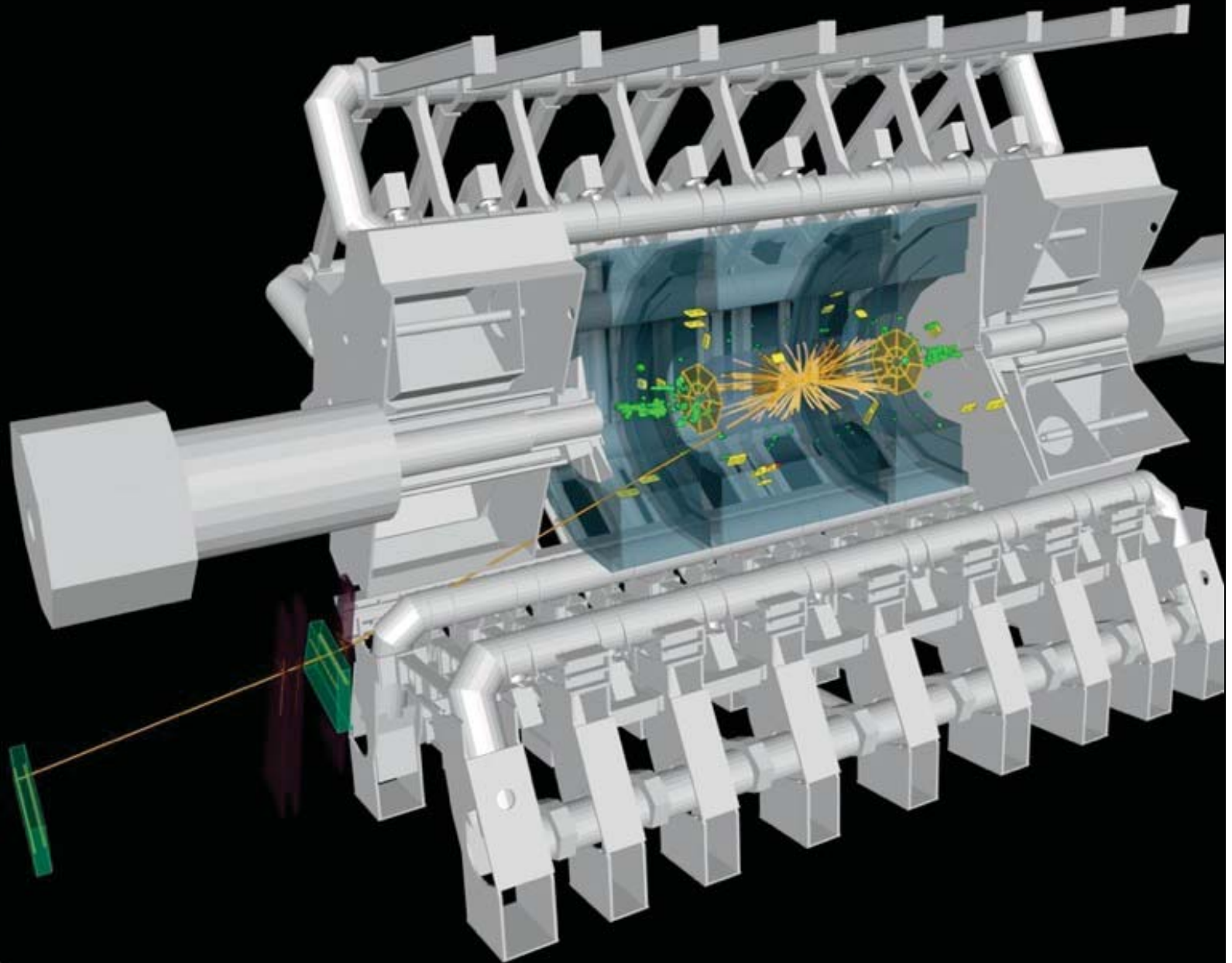
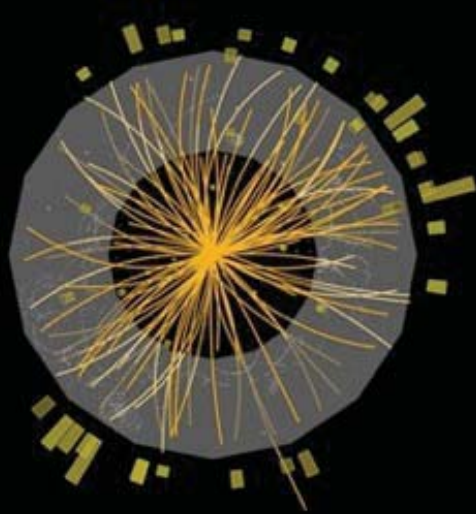
CERN AC/DI/MH - 94.07 - 10.04.1999







Collision Event at 7 TeV with Muon Candidate



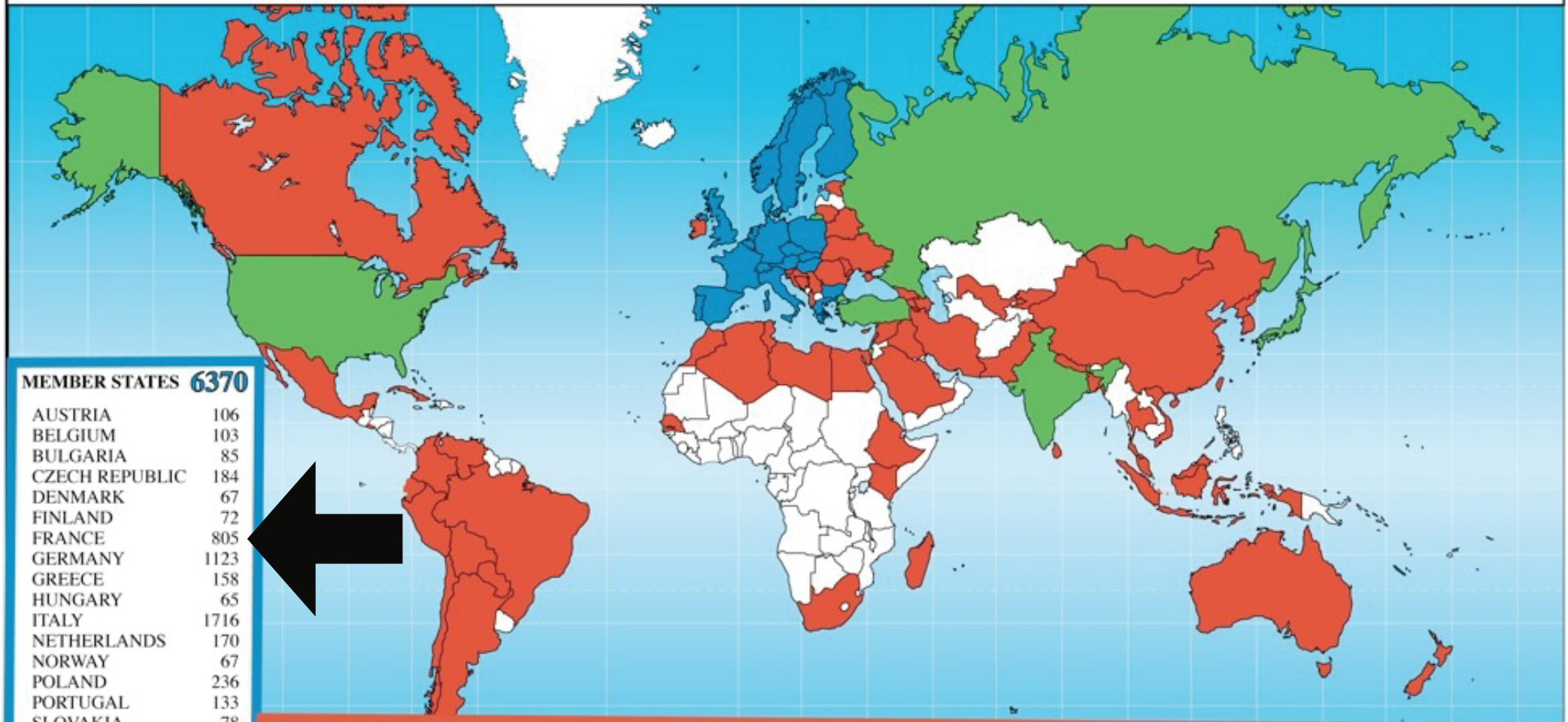
 **ATLAS**
EXPERIMENT

2010-03-30, 12:59 CEST
Run 152166, Event 322215

<http://atlas.web.cern.ch/Atlas/public/EVTDISPLAY/events.html>



Distribution of All CERN Users by Nationality on 20 January 2010



MEMBER STATES 6370

AUSTRIA	106
BELGIUM	103
BULGARIA	85
CZECH REPUBLIC	184
DENMARK	67
FINLAND	72
FRANCE	805
GERMANY	1123
GREECE	158
HUNGARY	65
ITALY	1716
NETHERLANDS	170
NORWAY	67
POLAND	236
PORTUGAL	133
SLOVAKIA	78
SPAIN	330
SWEDEN	67
SWITZERLAND	200
UNITED KINGDOM	605

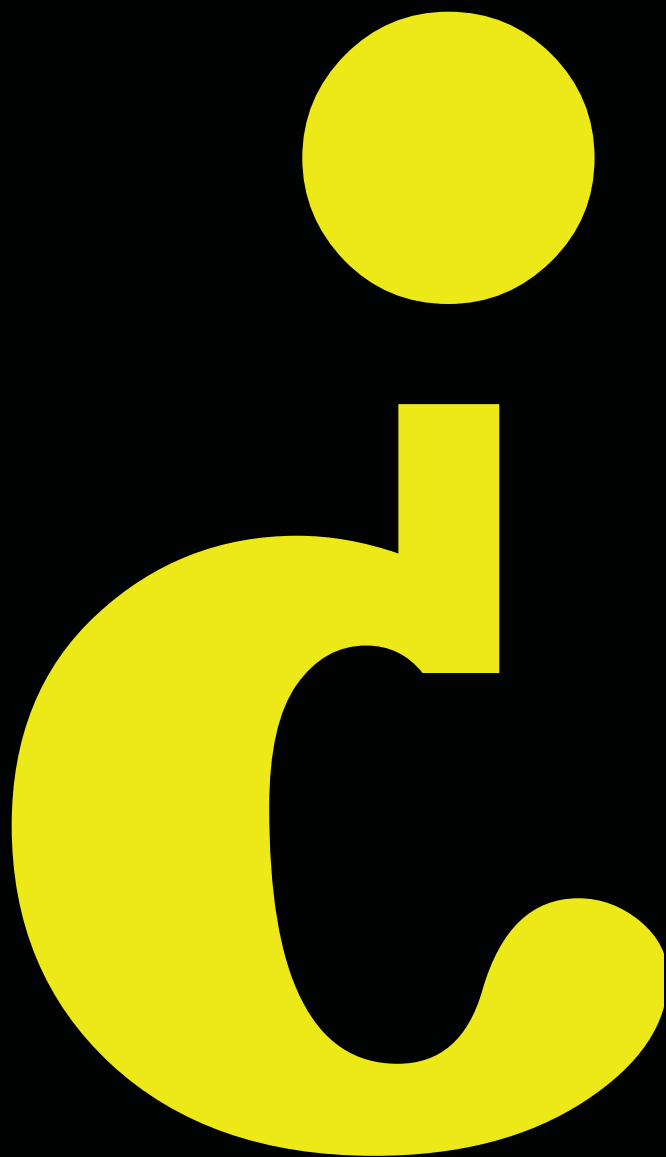
OBSERVER STATES 2444

INDIA	158
ISRAEL	51
JAPAN	229
RUSSIA	1027
TURKEY	87
USA	892

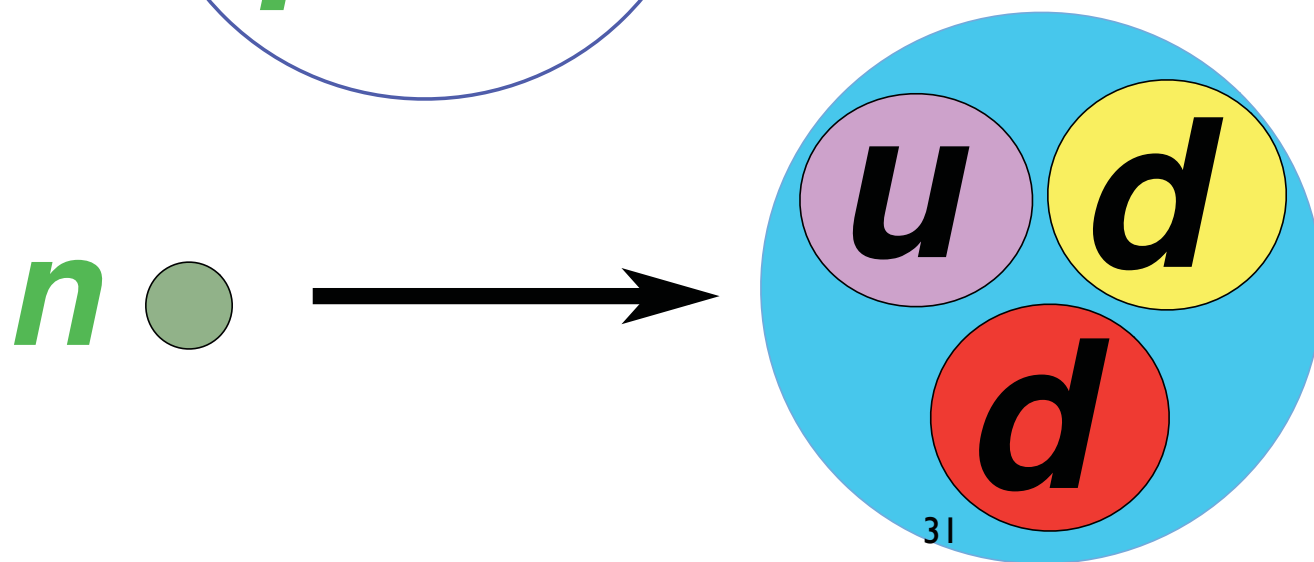
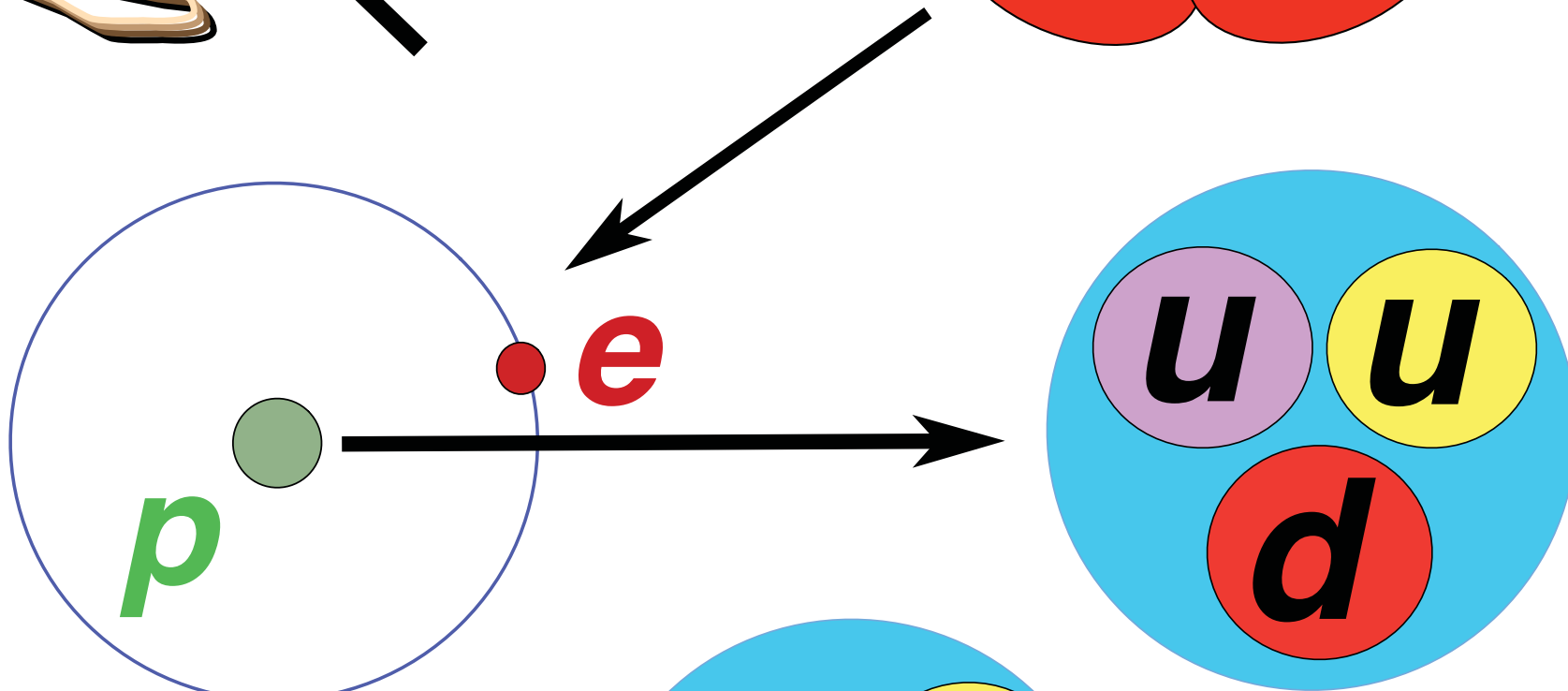
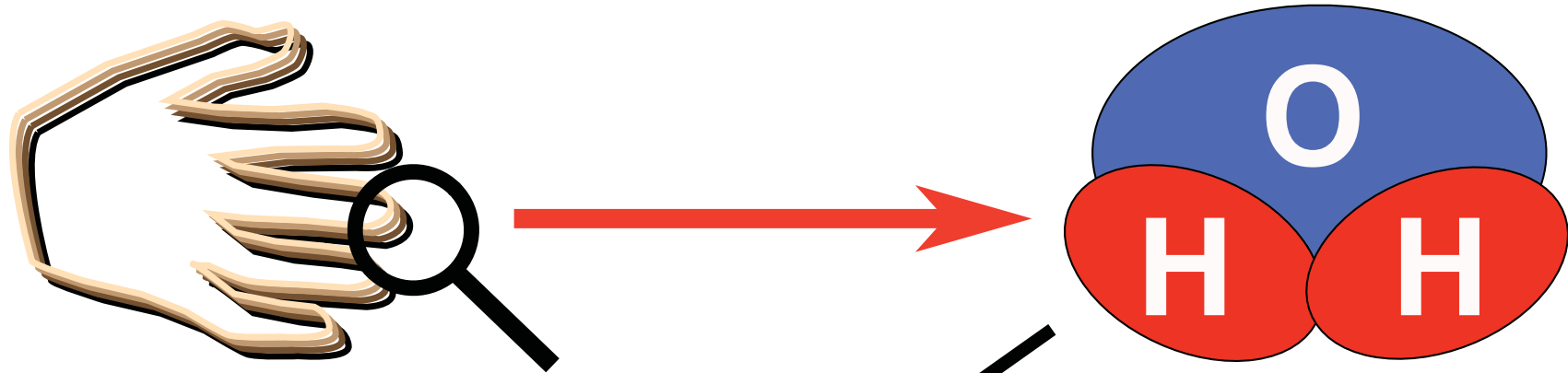
OTHERS 1205

ALBANIA	2	BRAZIL	79	ESTONIA	9	KYRGYZSTAN	1	MOROCCO	16	SINGAPORE	1
ALGERIA	8	CANADA	136	ETHIOPIA	1	LEBANON	8	NEPAL	3	SLOVENIA	20
ARGENTINA	11	CHILE	3	GEORGIA	31	LITHUANIA	9	NEW ZEALAND	10	SOUTH AFRICA	9
ARMENIA	24	CHINA	202	GIBRALTAR	1	LUXEMBOURG	5	PAKISTAN	33	SRI LANKA	6
AUSTRALIA	20	CHINA (TAIPEI)	41	HONG KONG	2	LIBYA	1	PALESTINE (O.T.)	1	SYRIA	2
AZERBAIJAN	5	COLOMBIA	19	INDONESIA	1	MADAGASCAR	3	PARAGUAY	1	THAILAND	1
BANGLADESH	3	CROATIA	24	IRAN	20	MALAYSIA	7	PERU	2	TUNISIA	5
BELARUS	36	CUBA	4	IRAQ	1	MALTA	3	ROMANIA	101	UKRAINE	40
BELGIUM	2	CYPRUS	12	IRELAND	20	MAURITIUS	1	SAN MARINO	1	UZBEKISTAN	2
BULGARIA	1	ECUADOR	2	KENYA	2	MEXICO	46	SAUDI ARABIA	2	VENEZUELA	5
CANADA	1	EGYPT	6	KOREA, D.P.R.	3		1	SENEGAL	1	VIET NAM	6
CHINA	1	EL SALVADOR	1	KOREA REP.	85		1	SERBIA	34		

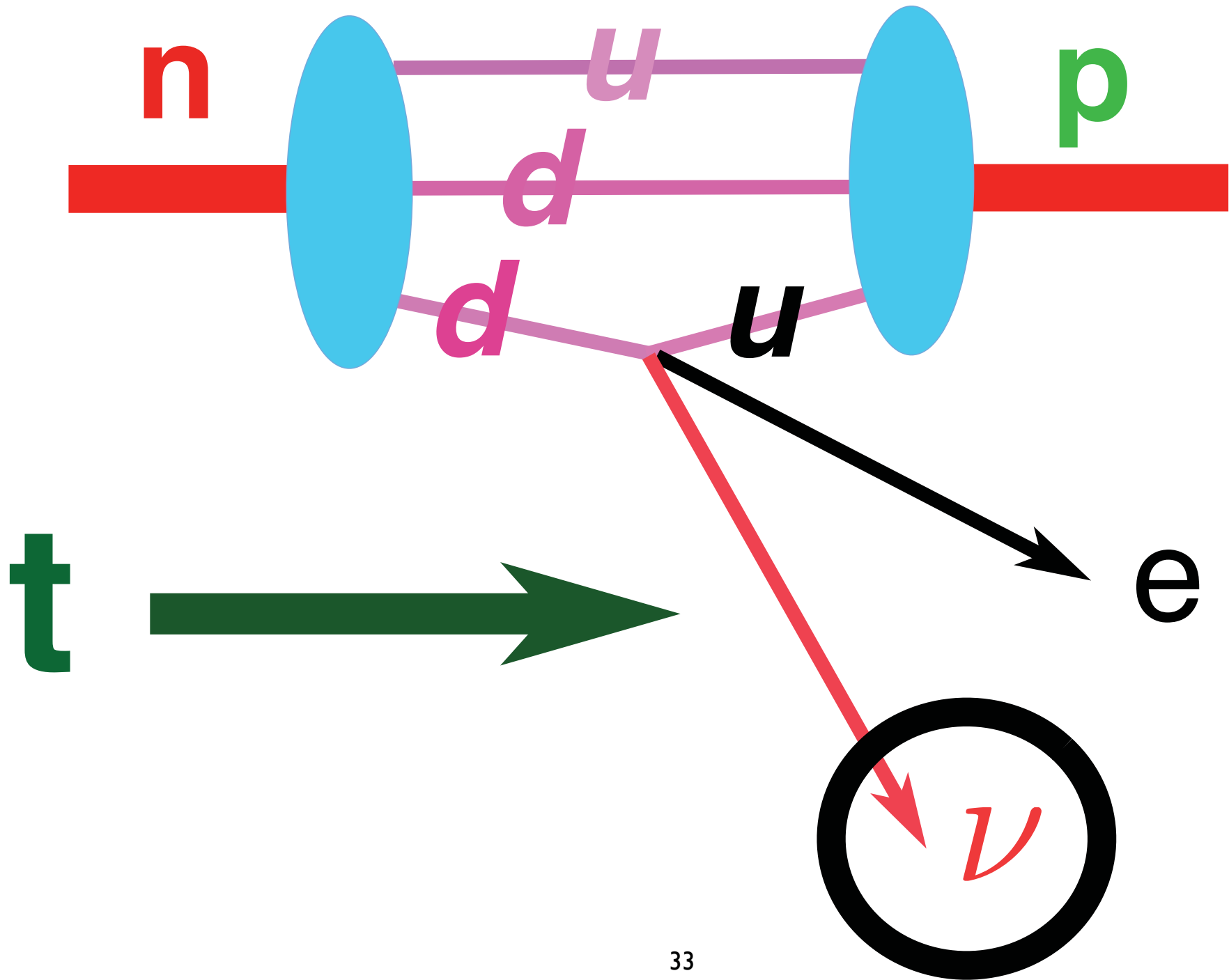


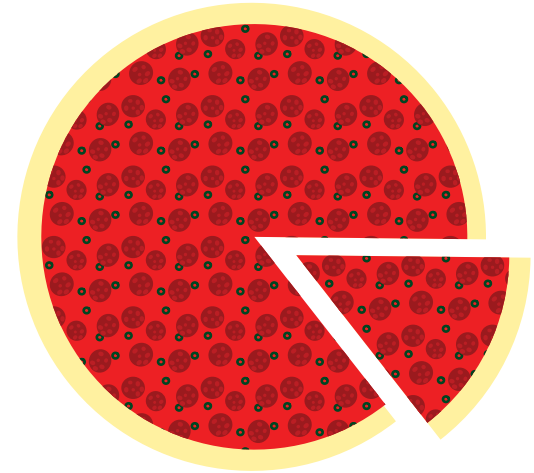
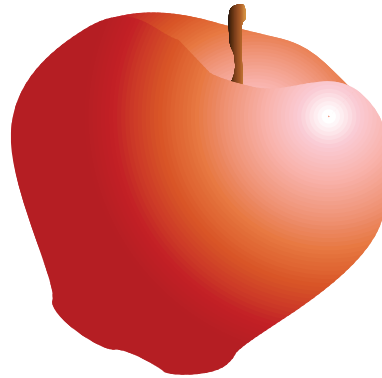
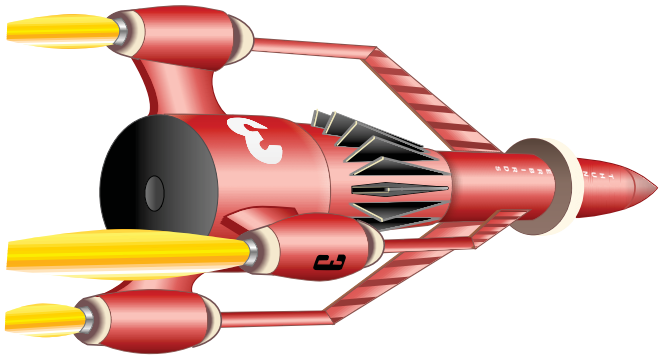


Ce que
sont les
“*choses*”



Comment
fonctionnent
les choses



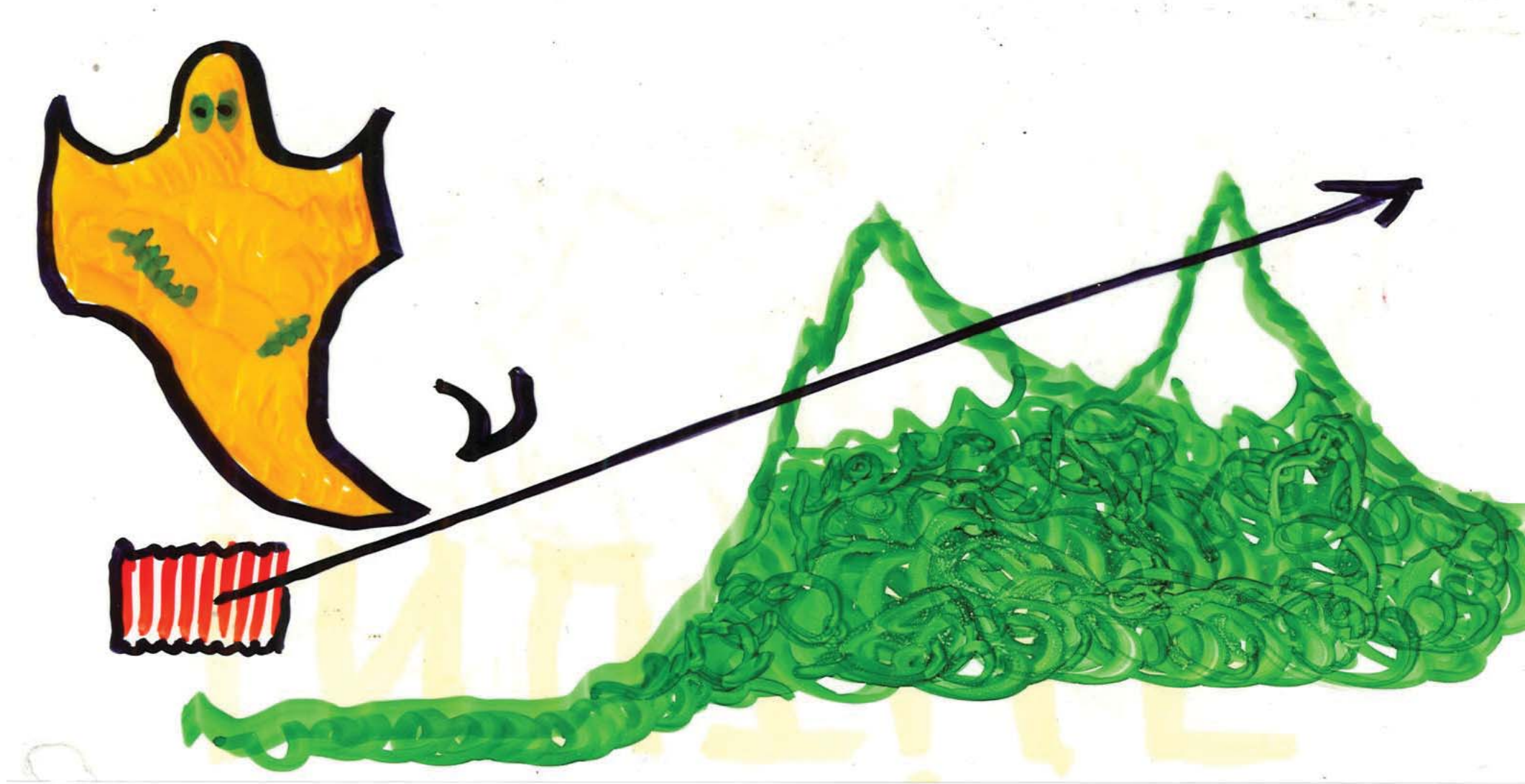


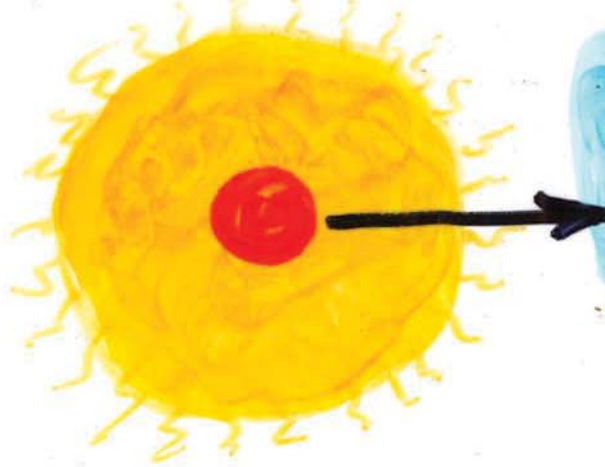
(u, d)

(e, ν ?)

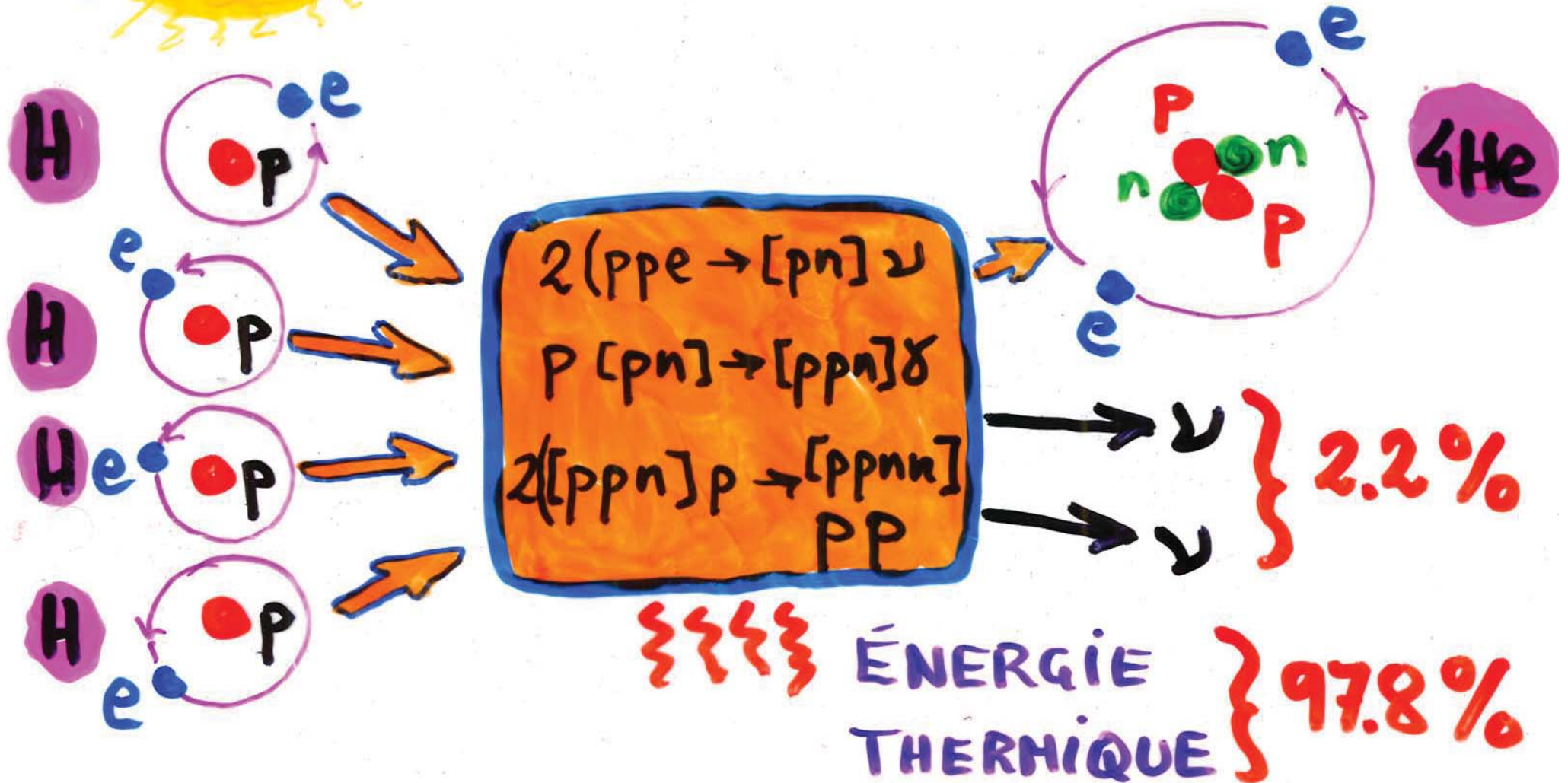


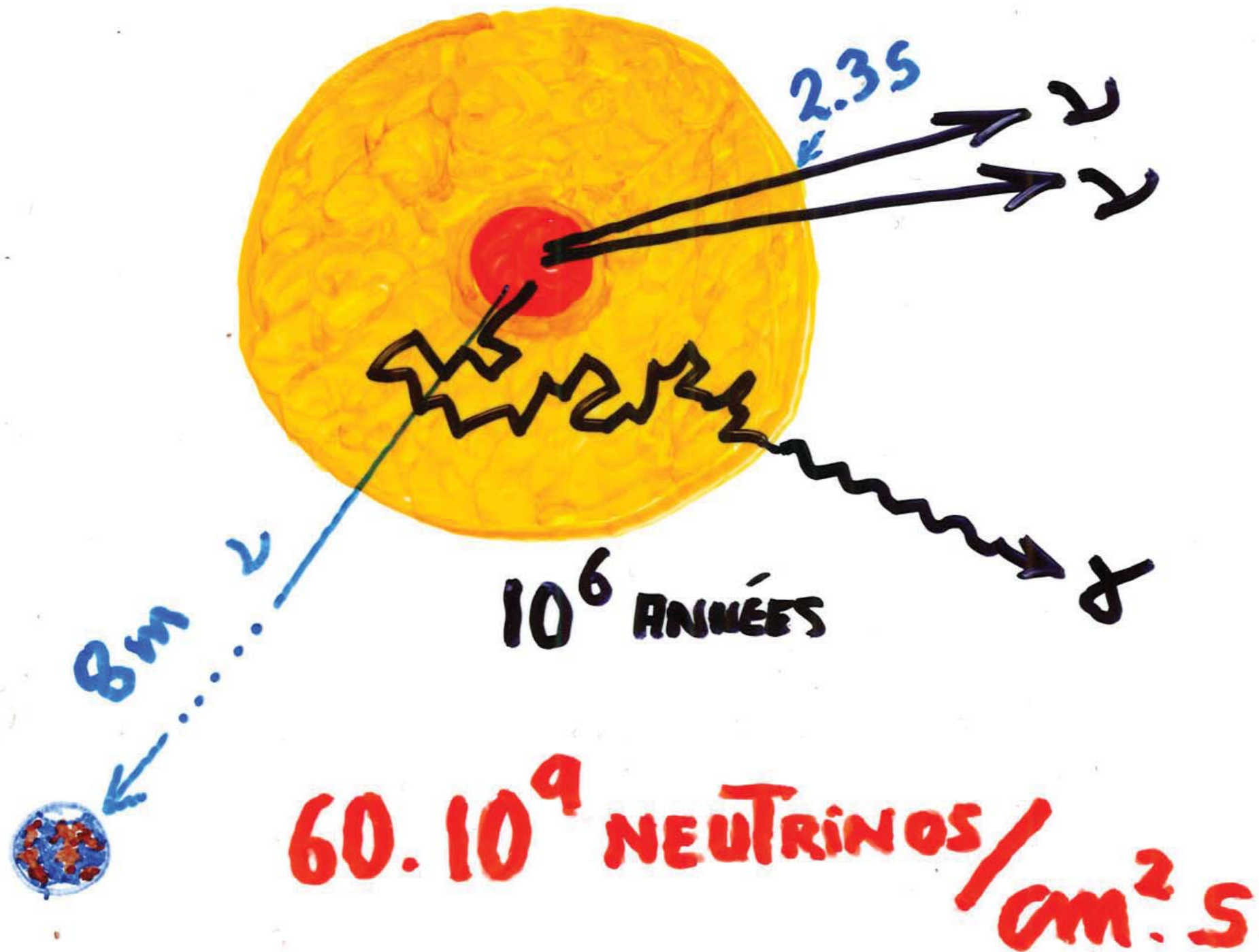
**Pas
de
“vino”
sans
neu-
trino**

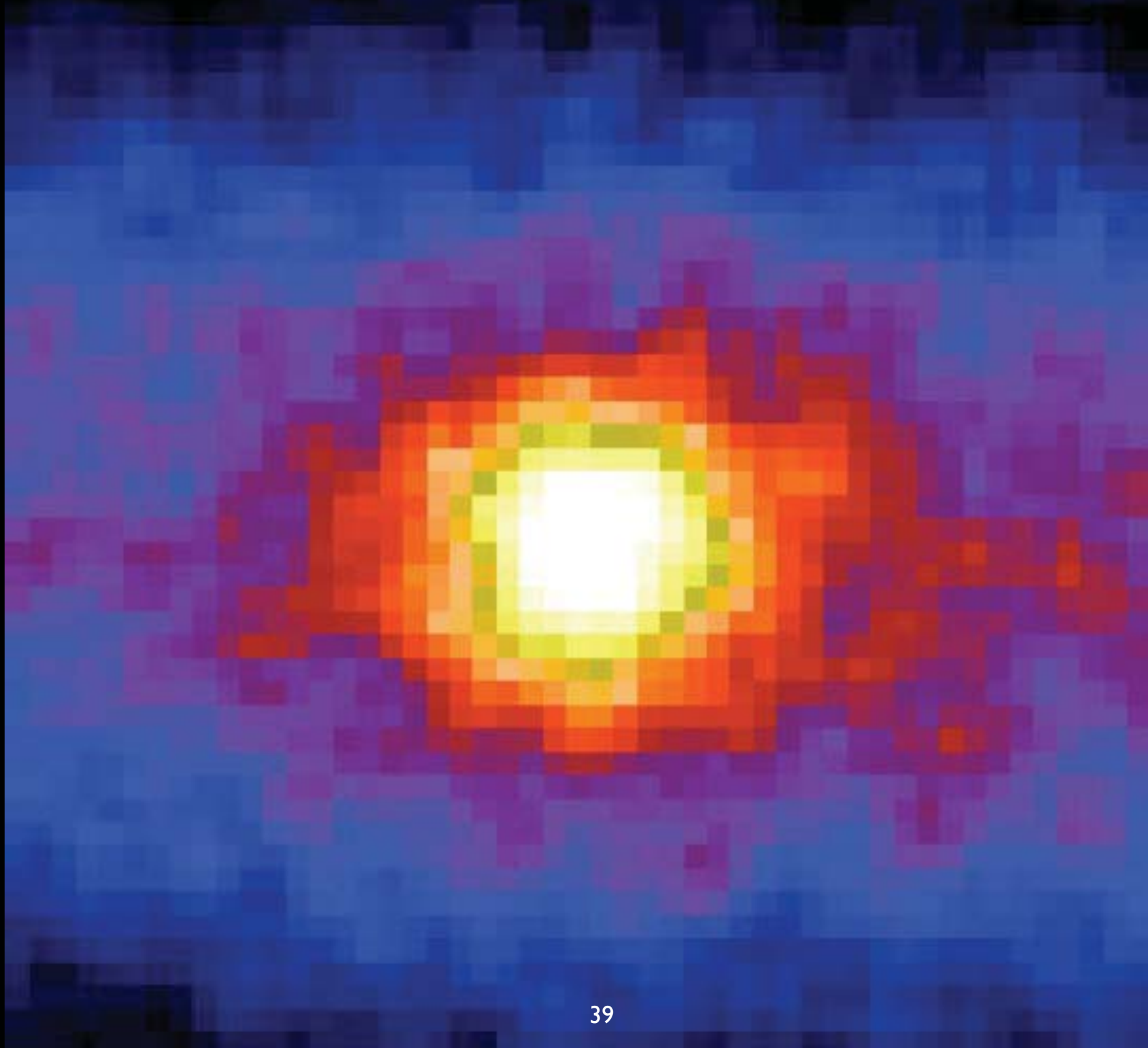


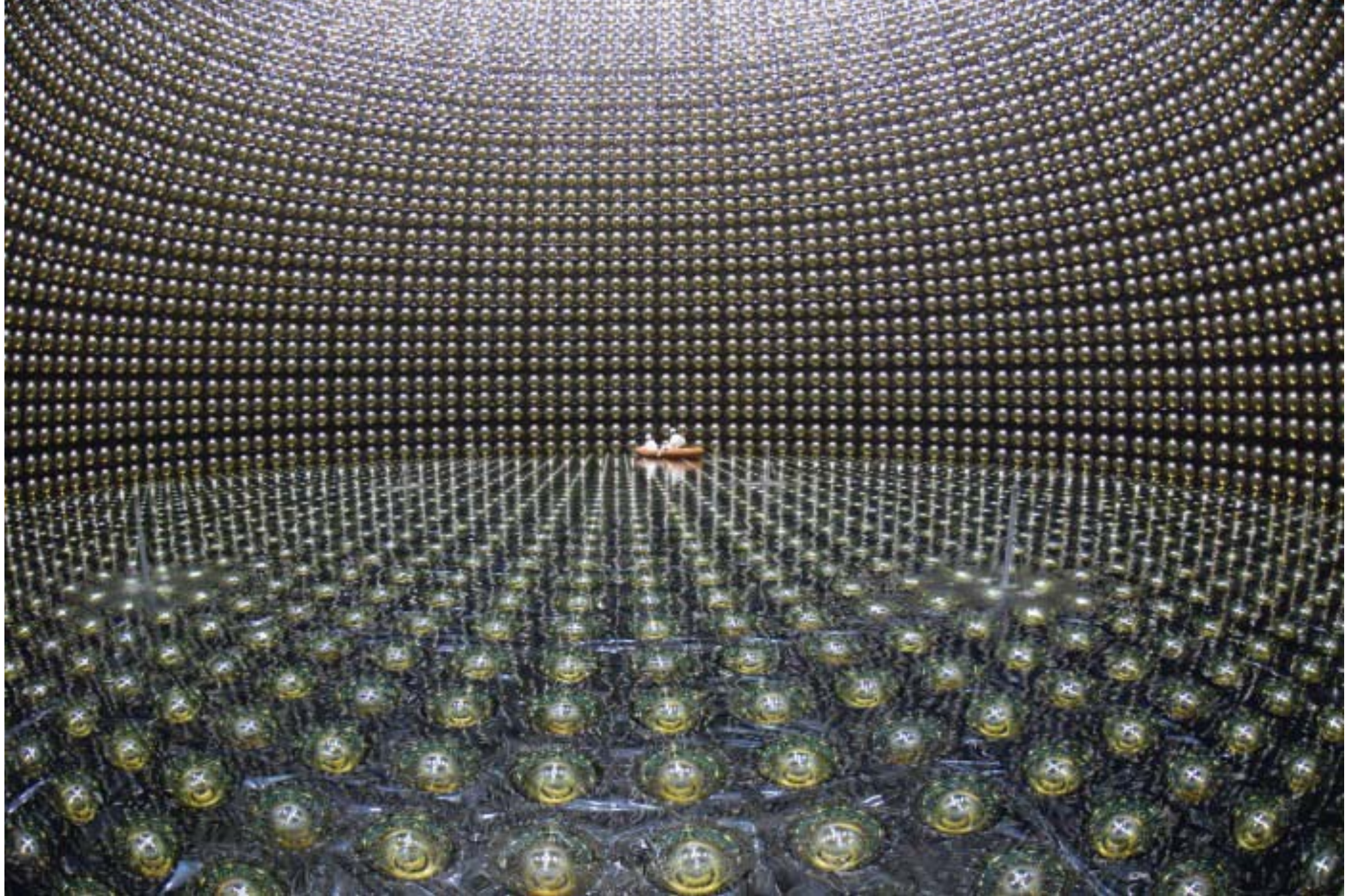


FOUR À FUSION THERMONUCLÉAIRE









Les Neutrinos Solaires
sont (a mon avis) les seuls
RAYONS COSMIQUES
qu'on comprends
vraiment bien

u

c

t

d

s

b

e

μ

τ

ν_e

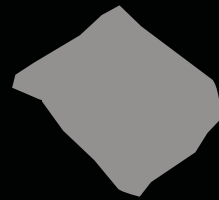
ν_μ

ν_τ

$m \neq$

$m \neq$

m





HA ! Debout !

Et le
CHAMP
GRAVITATIONNEL ??

le VIDE est une
SUBSTANCE

$$\varphi_0 \neq 0$$

φ_0

Si le VIDE est une substance

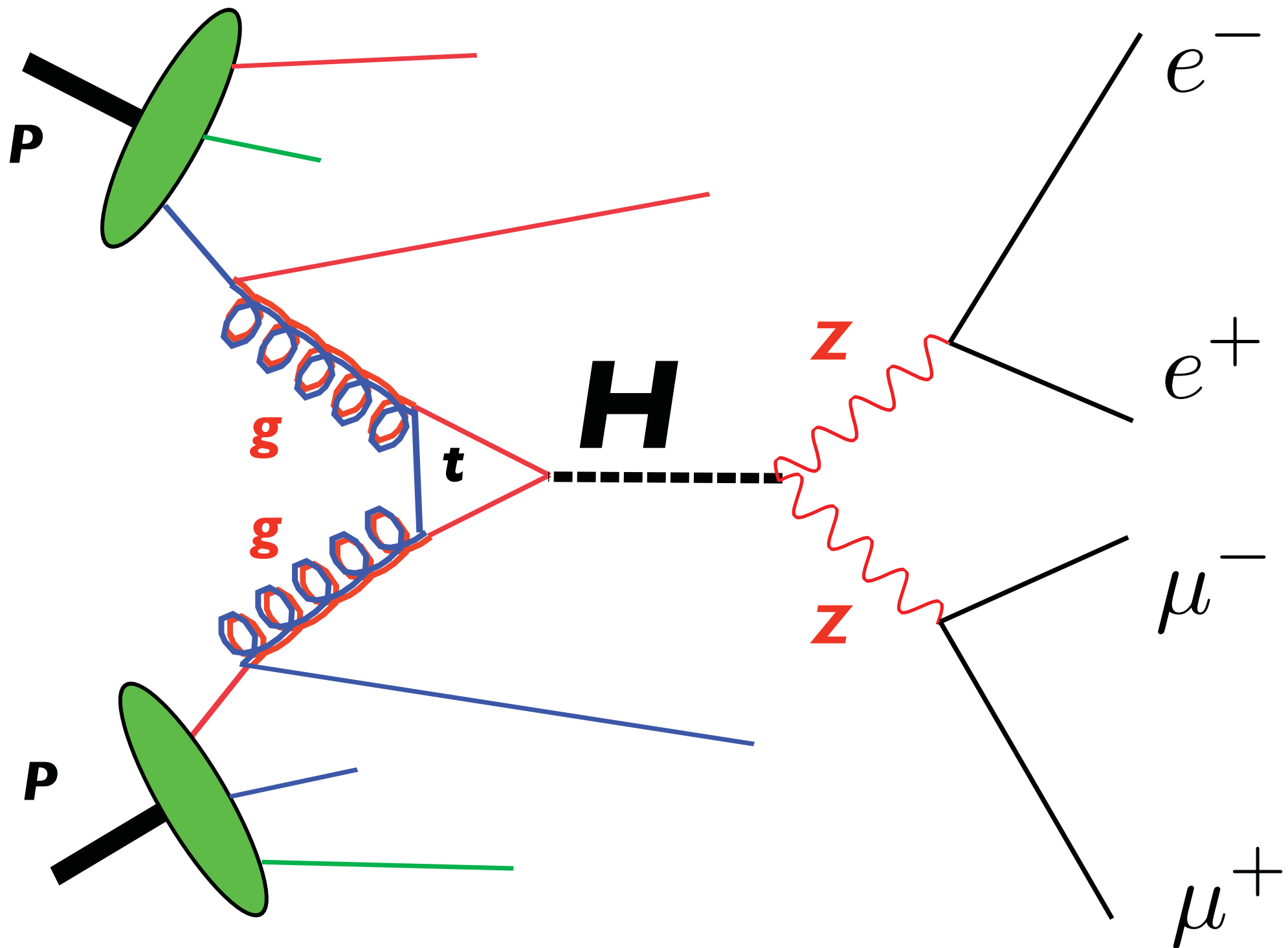
On peut la secouer

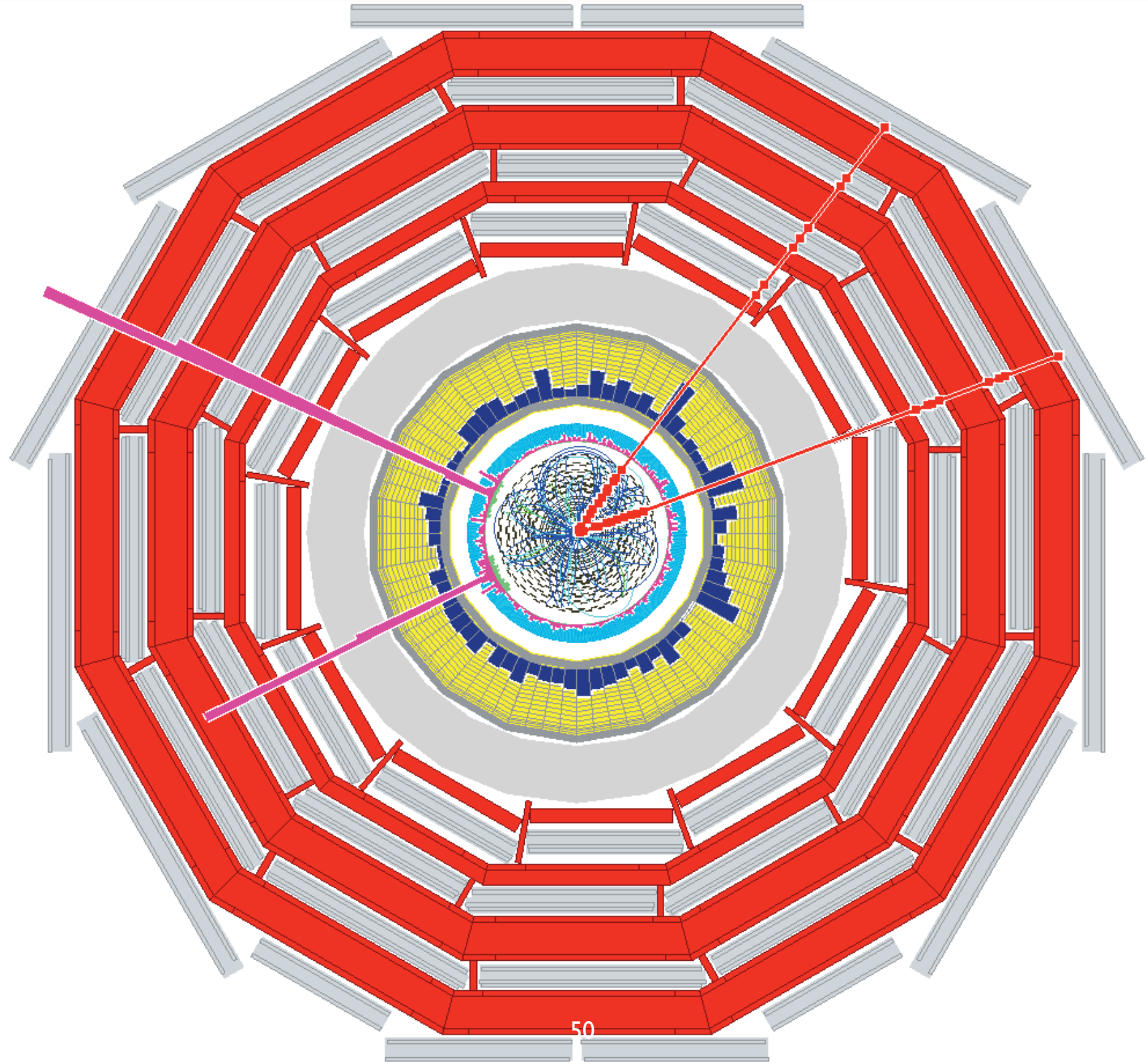
Ses vibrations sont des particules élémentaires

Le Higgs

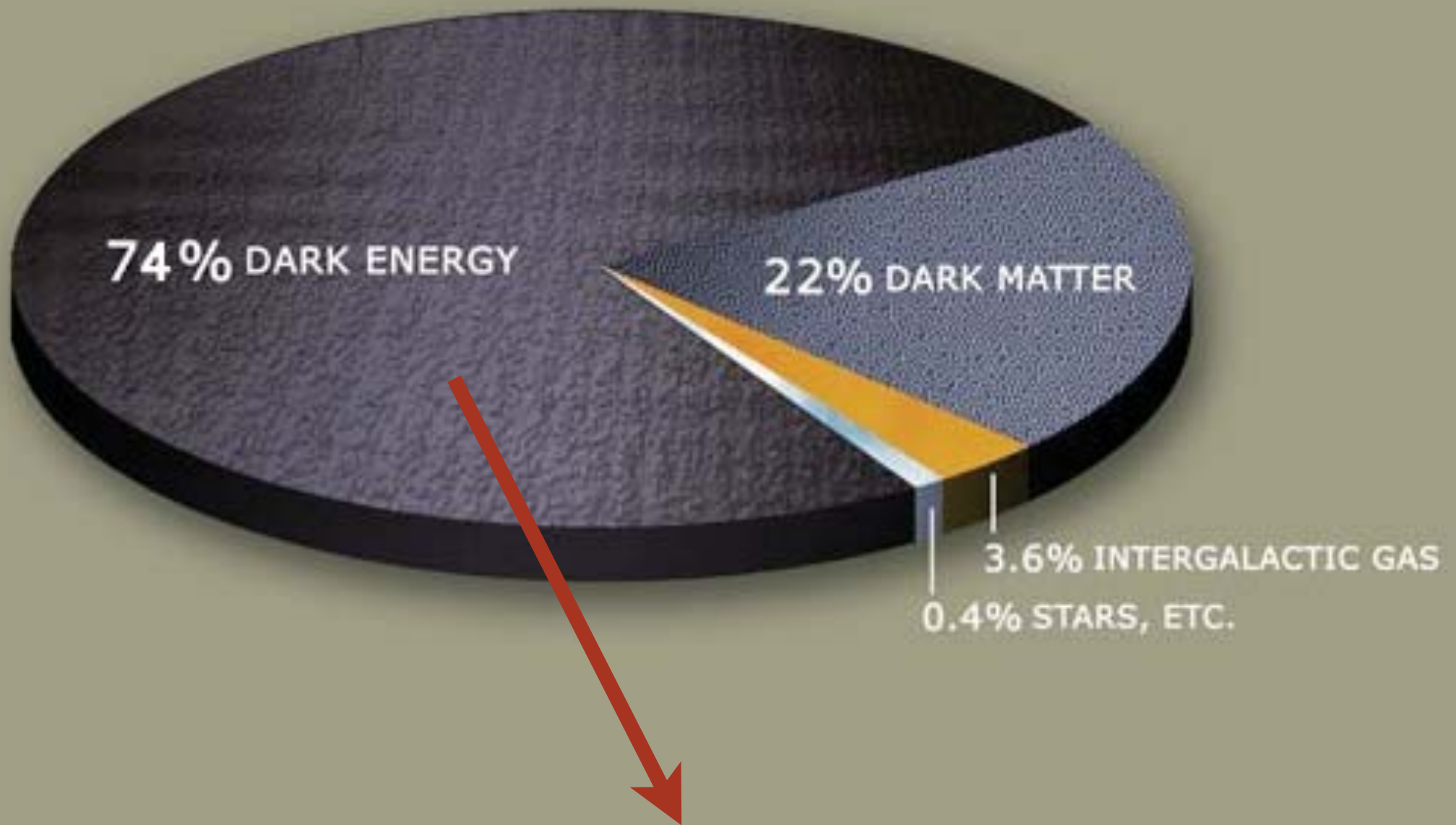
τὸ κενόνον

LHC = MSV

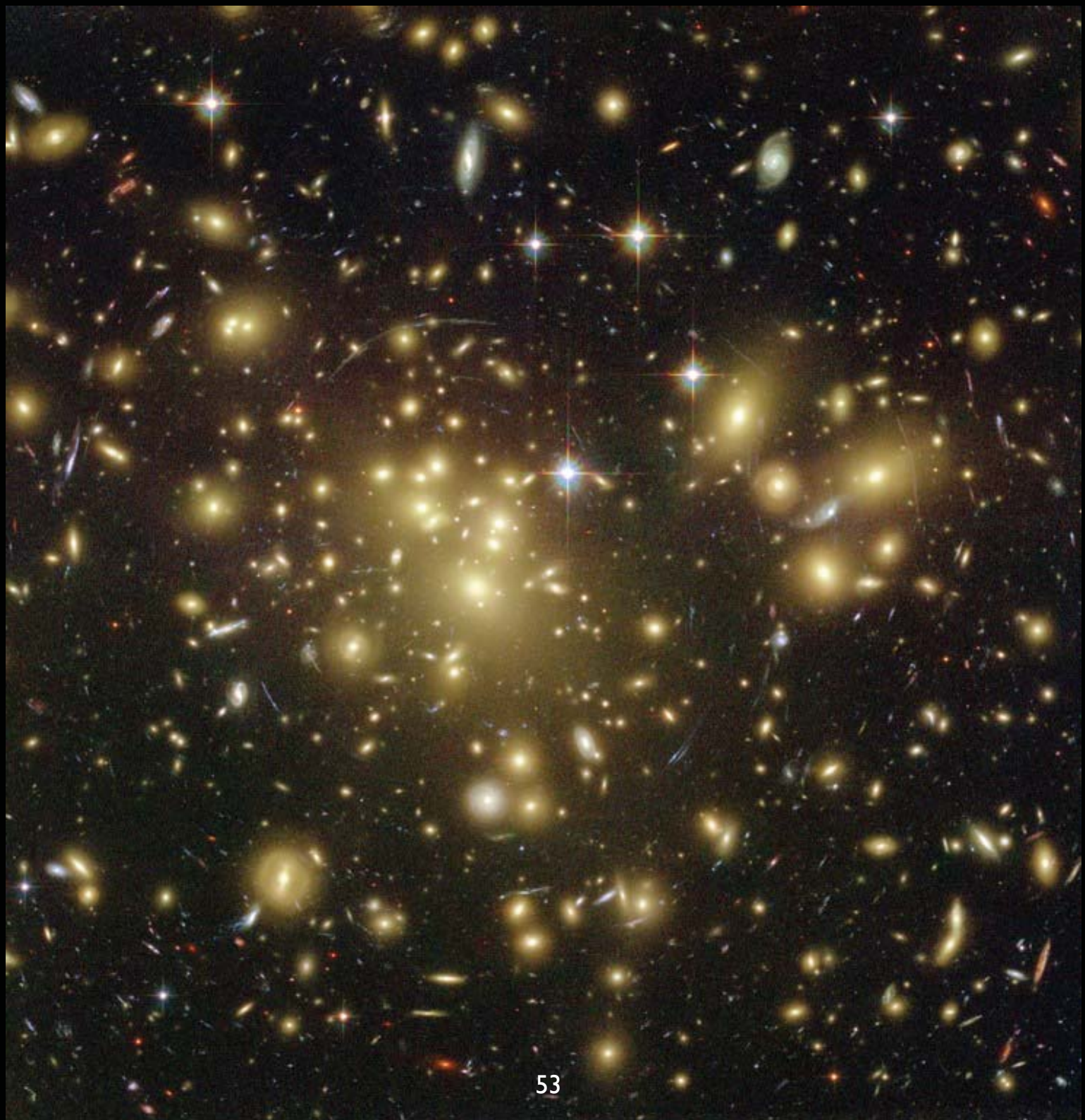


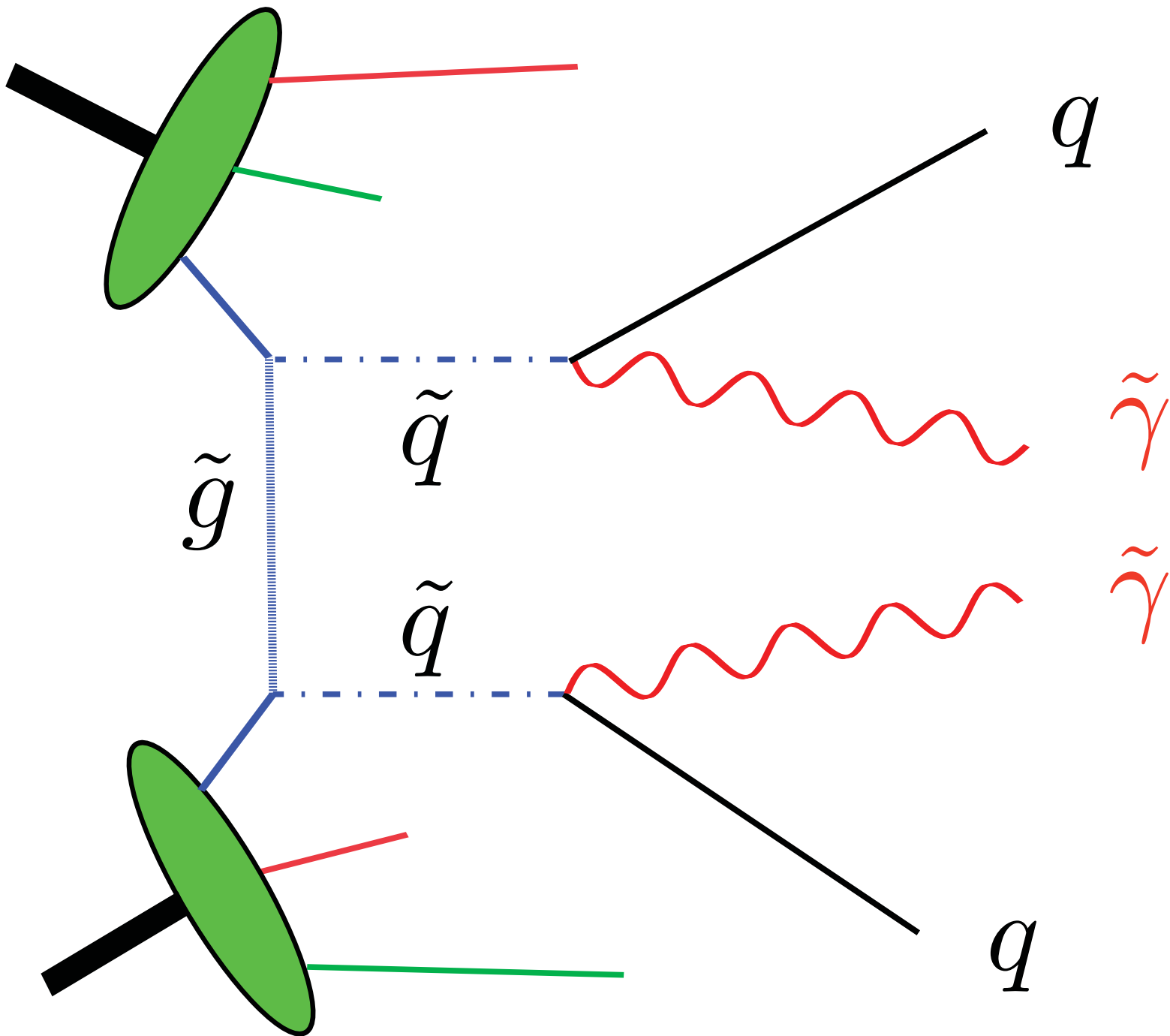


Pourquoi
 y-a-t'il qui 
l'appelle la
particule de ...



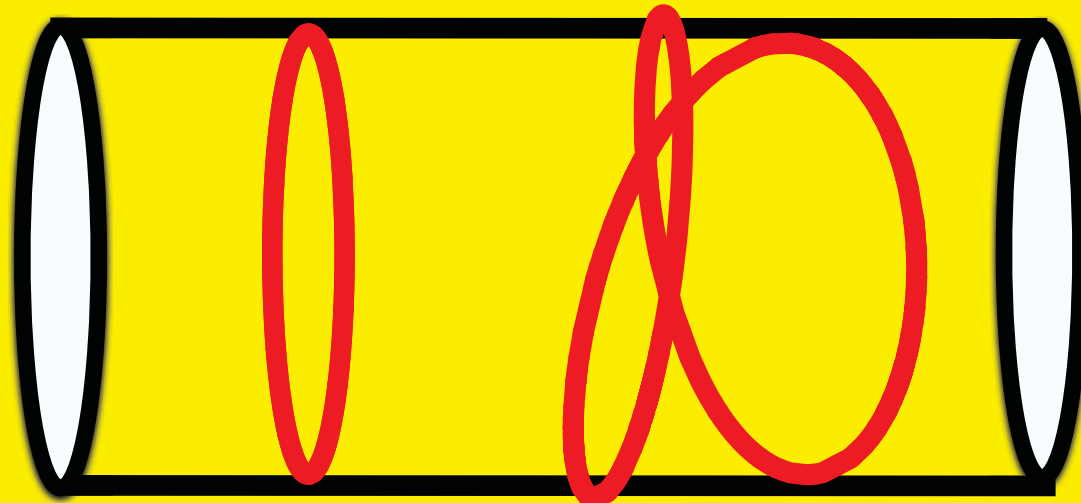
PAS EN DETAIL AUJOURD'HUI
L'ENERGIE DU VIDE !!!





Dimensions “extra”

•



m $2m$

À quoi ça SERT?

À comprendre!

http → www



No Comment

Ig Nobel Management Prize 2010

Pluchino, Rapisarda, et Garofalo de l'Univ. de Catania, pour avoir démontré MATHEMATIQUEMENT que les organisations seraient plus efficaces si les promotions étaient octroyées au hasard.

REFERENCE: “The Peter Principle Revisited: A Computational Study,”

Alessandro Pluchino, Andrea Rapisarda, and Cesare Garofalo, Physica A, vol. 389, no. 3, February 2010, pp. 467-72.





