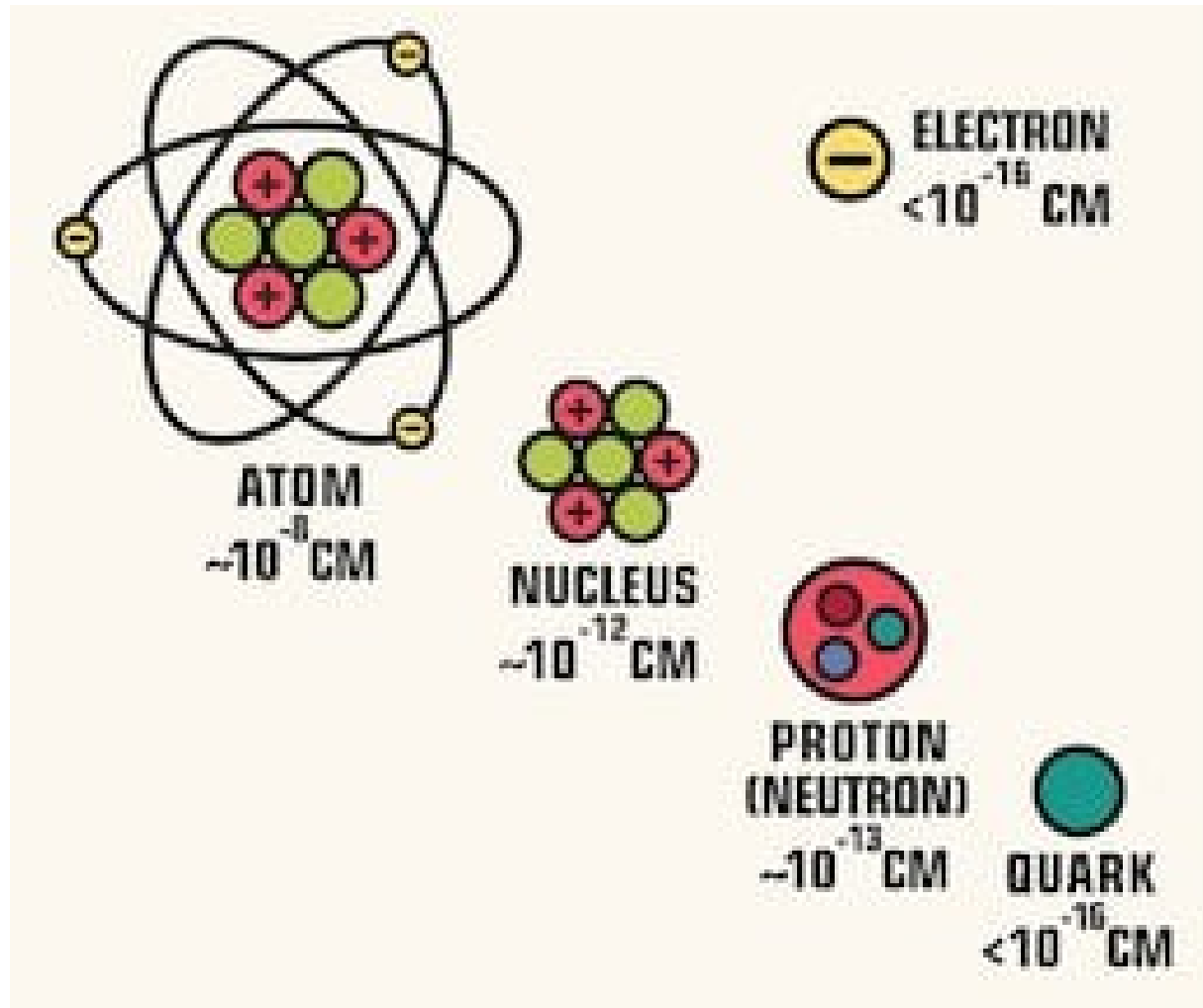
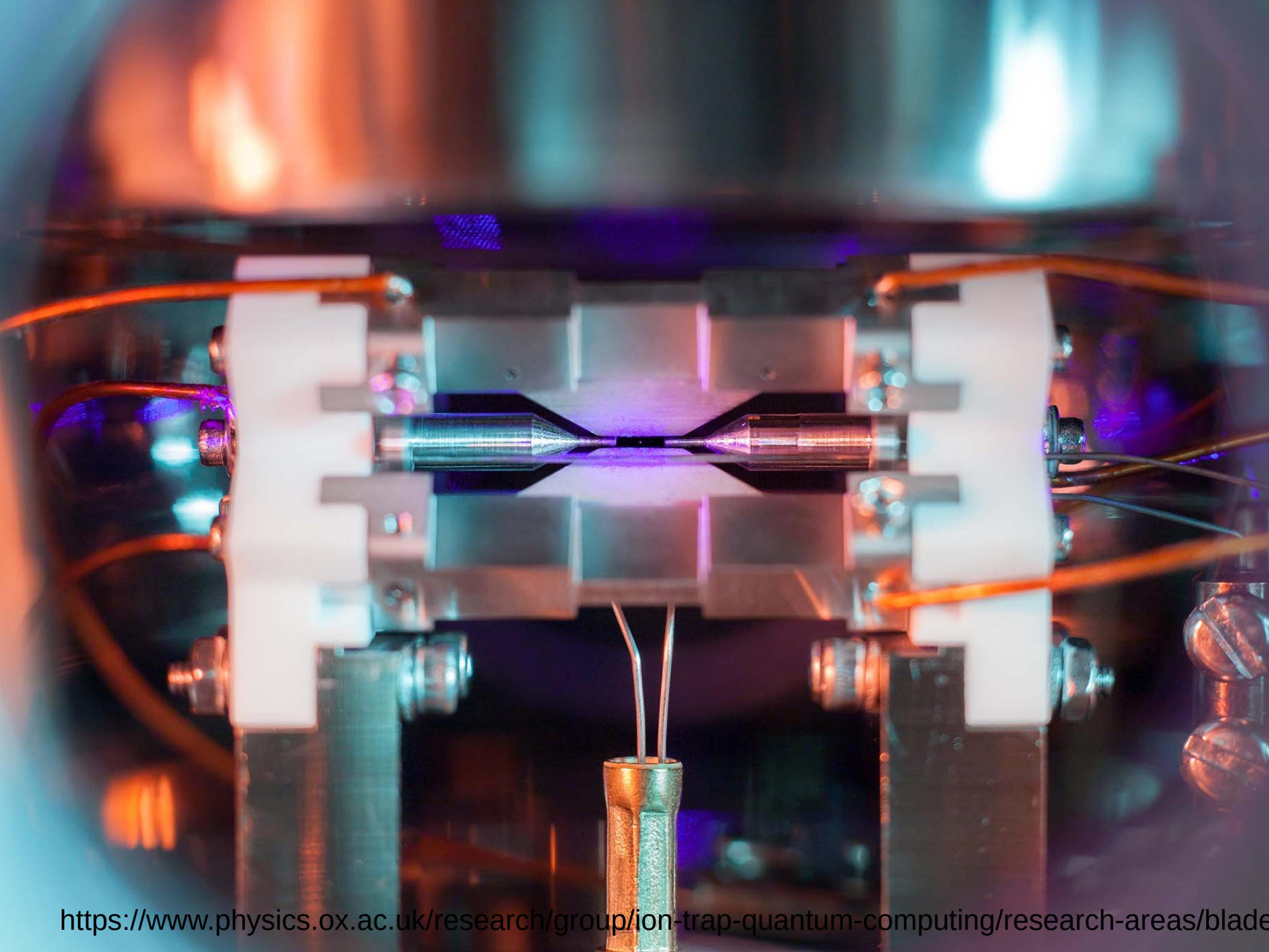


<https://www.smbc-comics.com/>









NIST
National Institute of Standards and Technology
Physical Meas. Laboratory

Basic Atomic Spectroscopic

Strontium (Sr)

Other Elements: Finding List, Element Name, Atomic Number, Periodic Table, Atomic Data, Strong Lines, Persistent Lines, Energy Levels, Persistent Lines, Energy Levels, Ref

Neutral Atom: Atomic Data, Strong Lines, Persistent Lines, Energy Levels, Persistent Lines, Energy Levels, Ref

Singly Ionized: Atomic Data, Strong Lines, Persistent Lines, Energy Levels, Persistent Lines, Energy Levels, Ref

Switch to ASCII Version

Persistent Lines of Singly Ionized Strontium

Intensity	Wavelength (Å)	A_{ki} ($10^8 s^{-1}$)	Energy Levels (cm^{-1})	Configu
30	2152.84		14555.90 60991.7	4d 4f
30	2165.96		14836.24 60991.7	4d 4f
14	3380.71		23715.19 53286.31	5p 5d
20	3464.46	3.1	24516.65 53372.97	5p 5d
1000	4077.71	1.42	0.00 24516.65	5s 5p
700	4215.52	1.27	0.00 23715.19	5s 5p
7	4305.45	1.4	24516.65 47736.53	5p 6s
20	10327.31		14836.24 24516.65	4d 5p

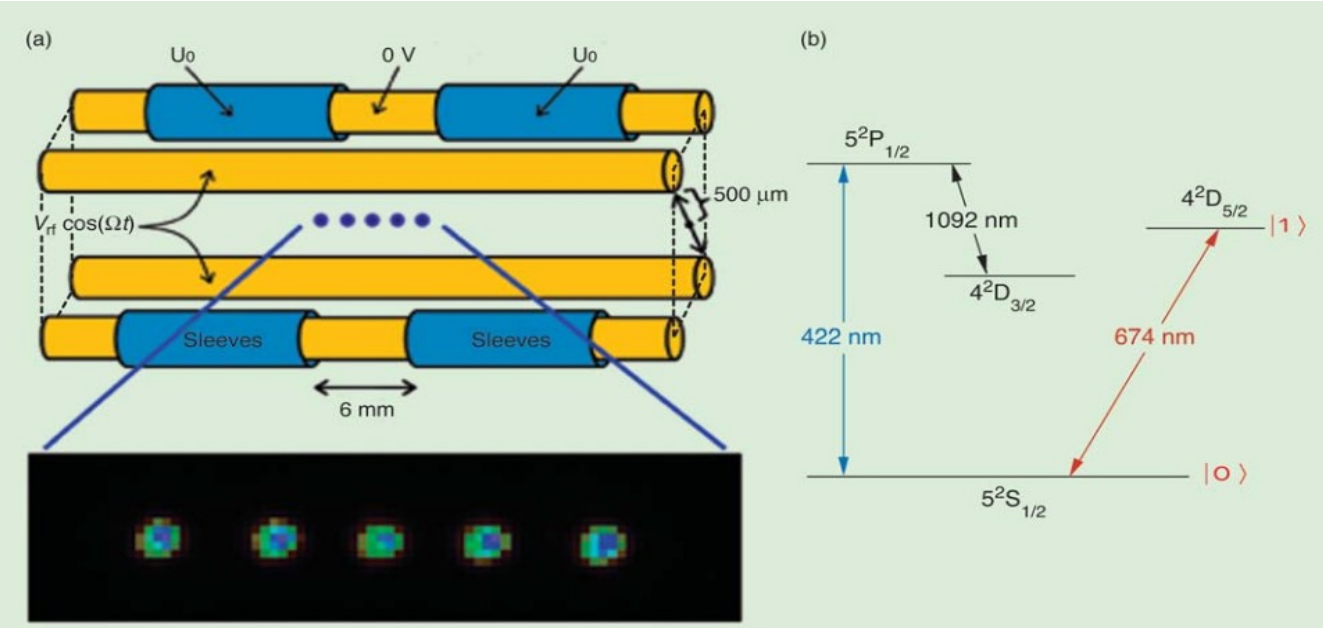
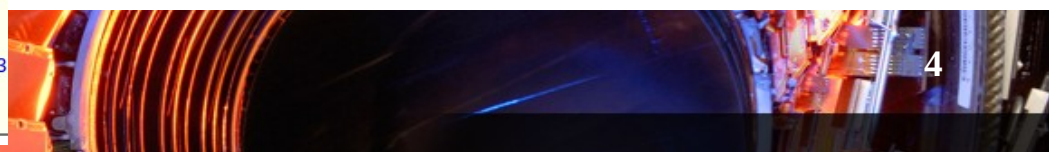
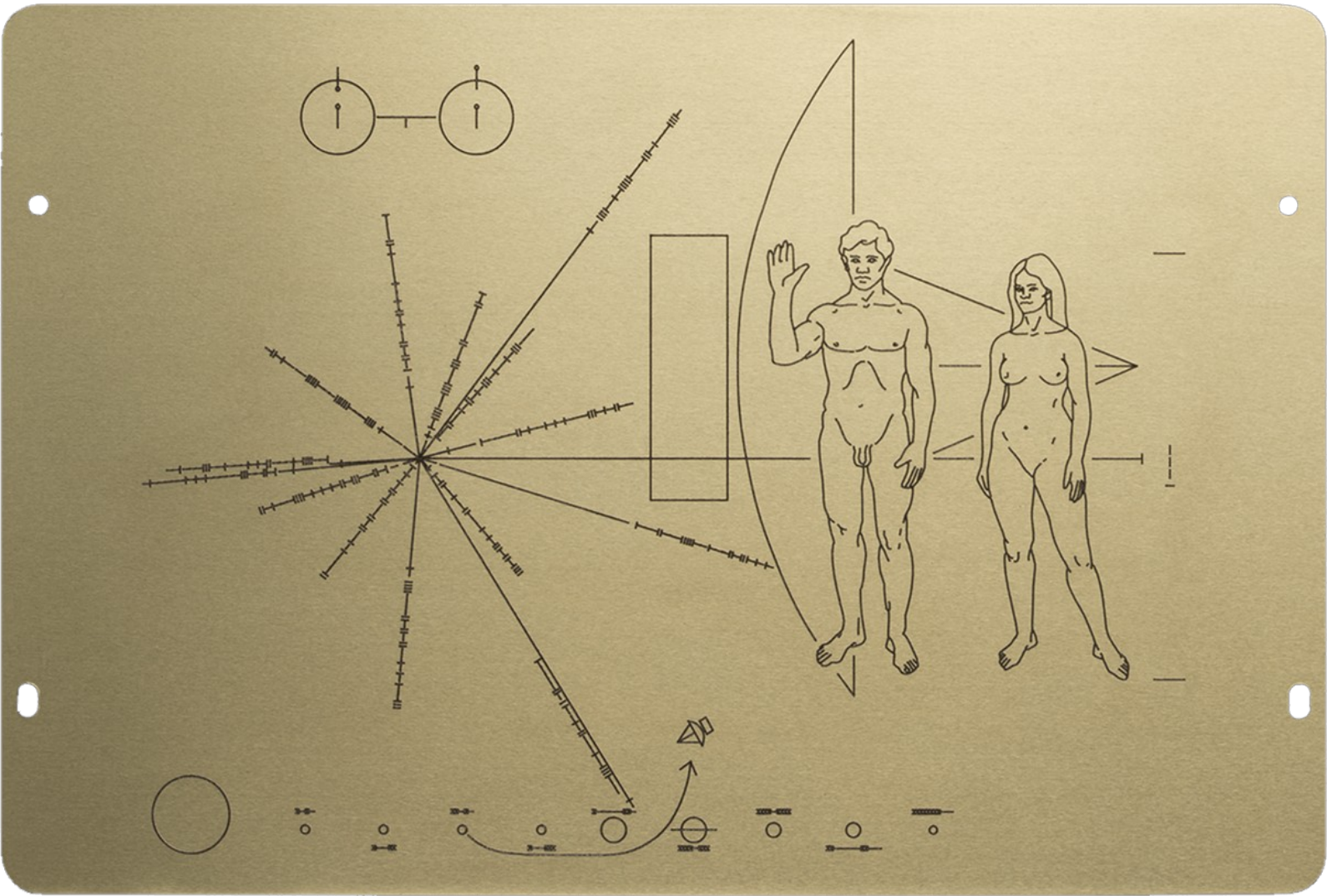


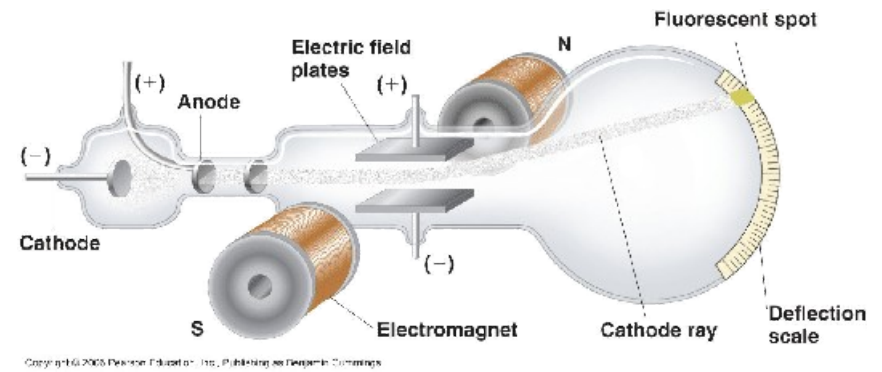
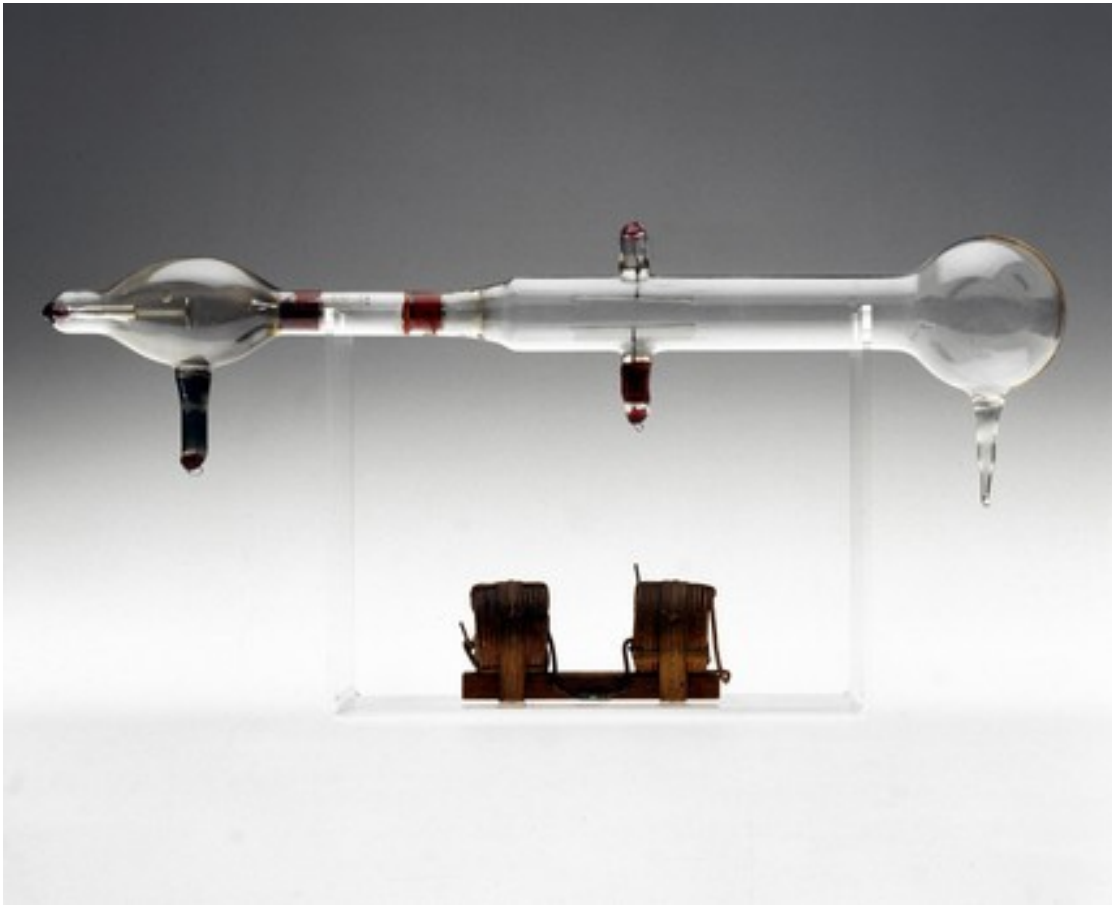
Figure 1. Strontium Ion Linear rf Paul Trap

2p°	1/2	MC
2D	3/2	
2p°	3/2	MC
2D	5/2	
2S	1/2	MC
2p°	3/2	
2S	1/2	MC
2p°	1/2	
2p°	3/2	MC
2S	1/2	
2D	5/2	S3
2p°	3/2	

<https://permalink.lanl.gov/object/tr?what=info:lanl-repo/lareport/LA-UR-02-4627>







J. J. Thomson, 1897

https://www.nyu.edu/classes/tuckerman/adv.chem/lectures/lecture_3/node1.html

<https://history.aip.org/history/exhibits/electron/>

<https://www.pbs.org/transistor/science/events/electron.html>

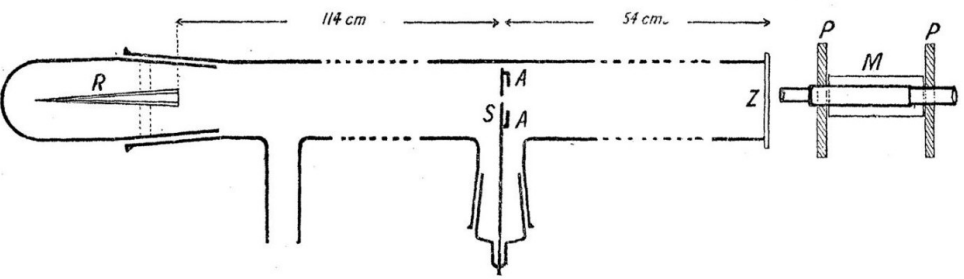
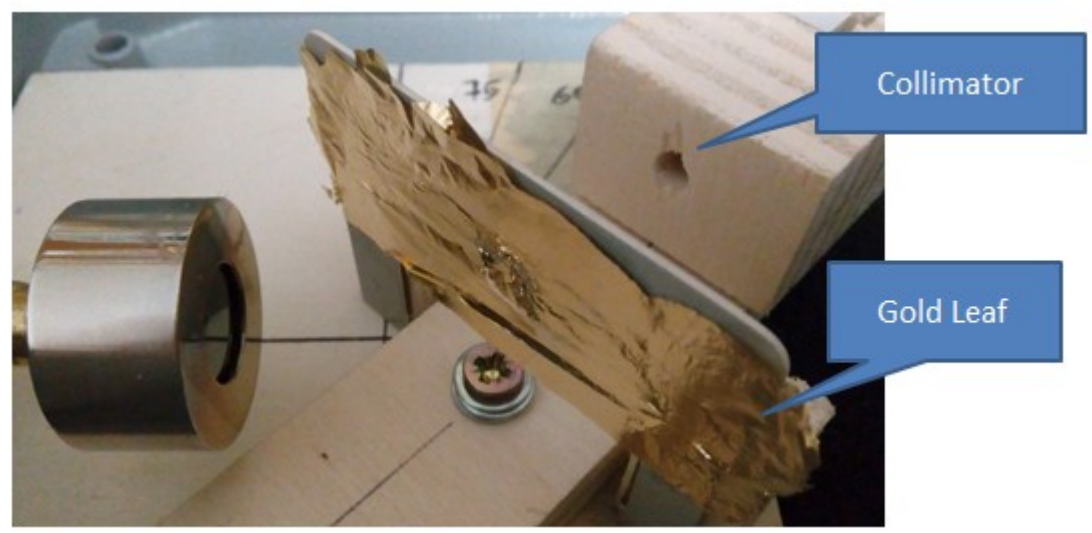
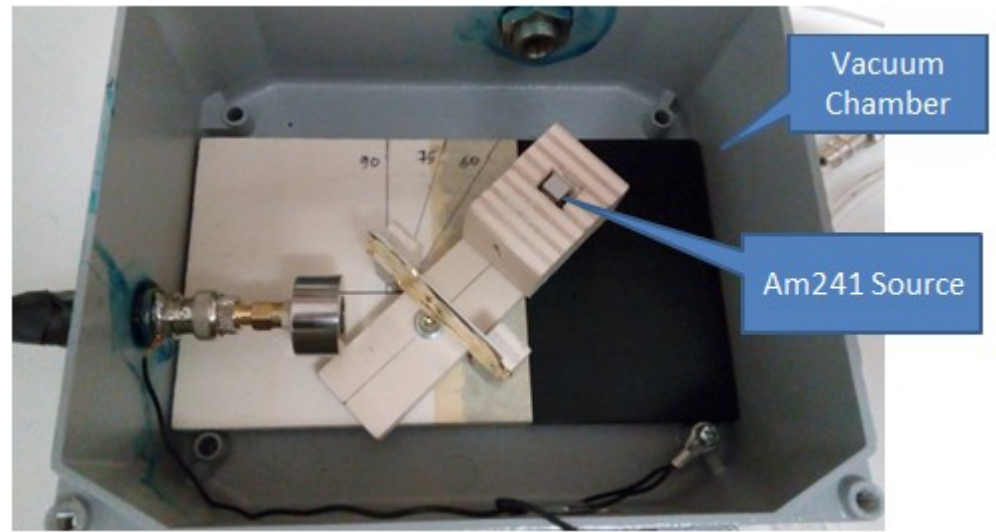
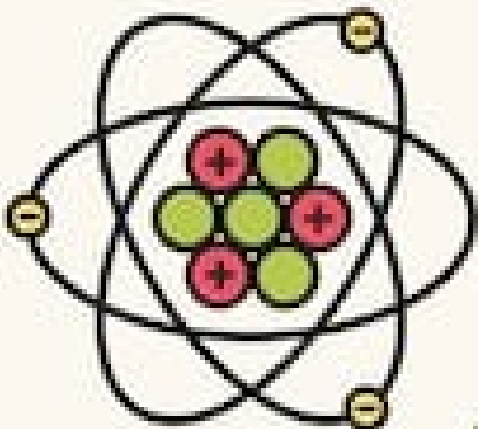


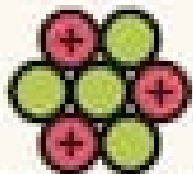
FIG. 1.

Geiger-Marsden, Rutherford (1908-1913)





ATOM
 $\sim 10^{-10}$ CM



NUCLEUS
 $\sim 10^{-12}$ CM



ELECTRON
 $< 10^{-16}$ CM



PROTON
(NEUTRON)

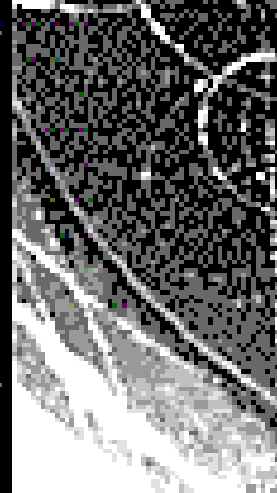
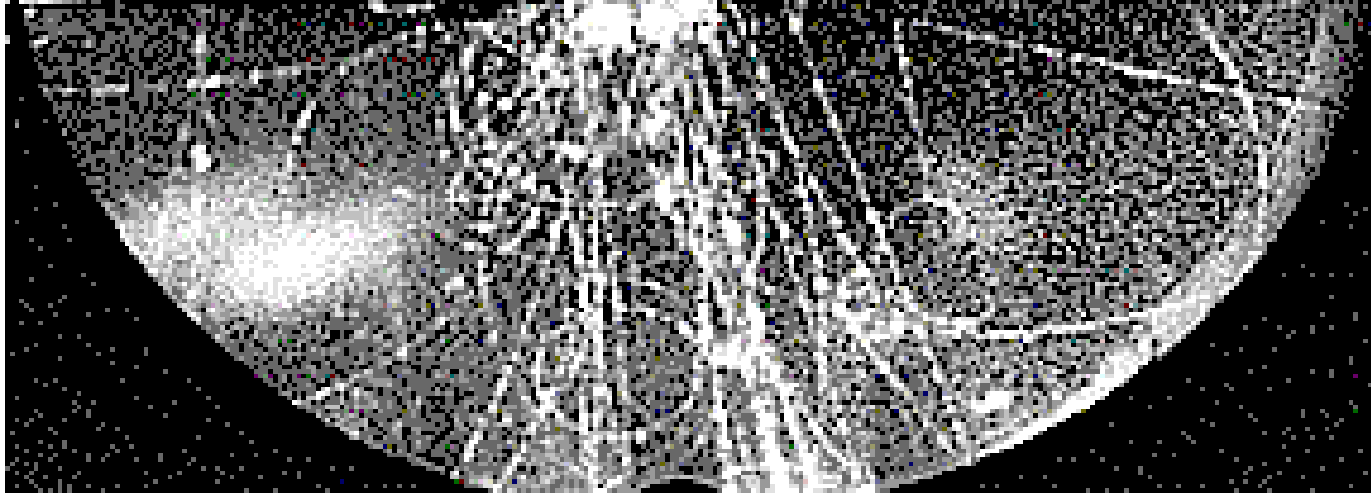
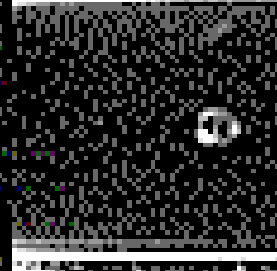
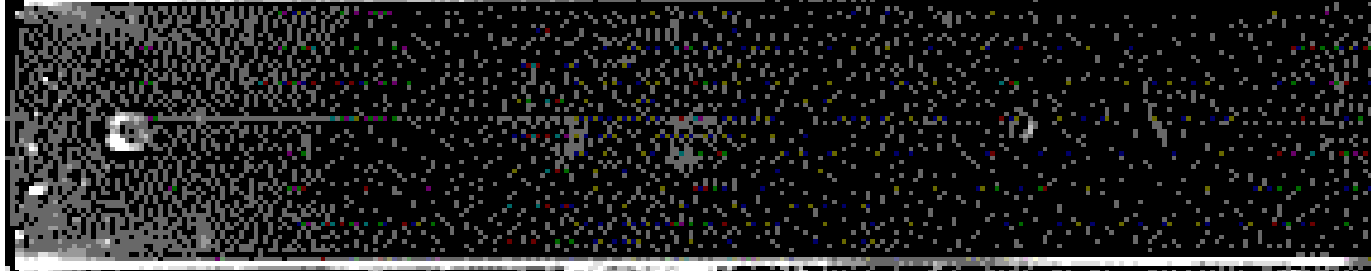
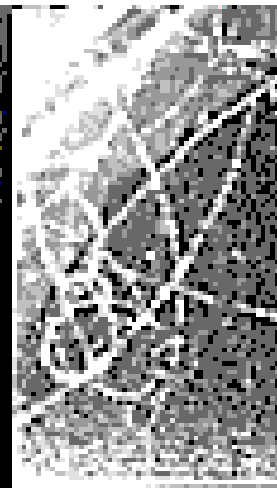
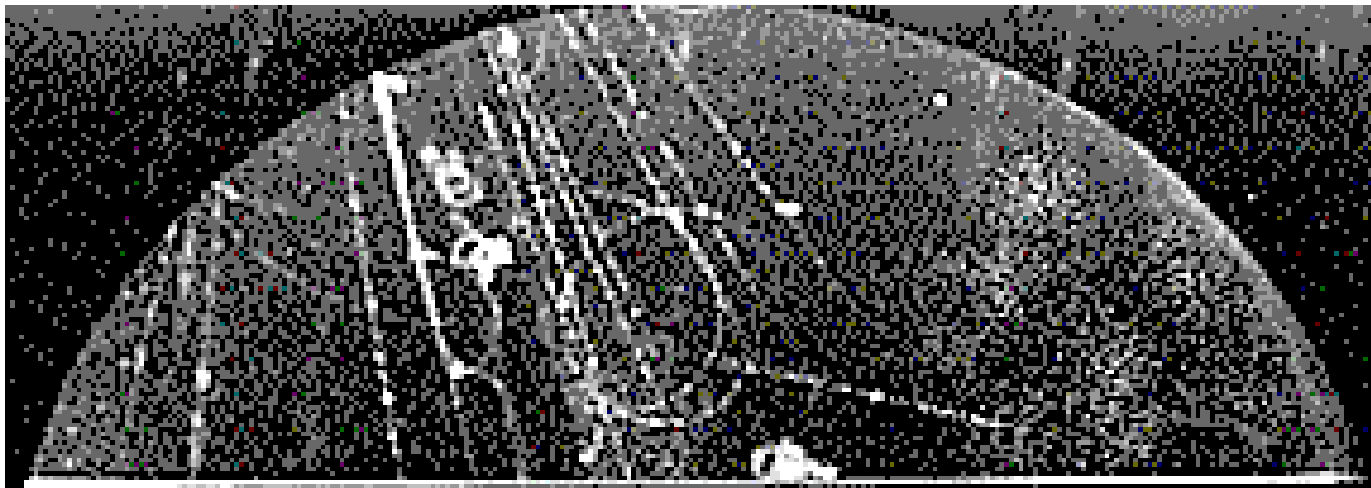
$\sim 10^{-13}$ CM



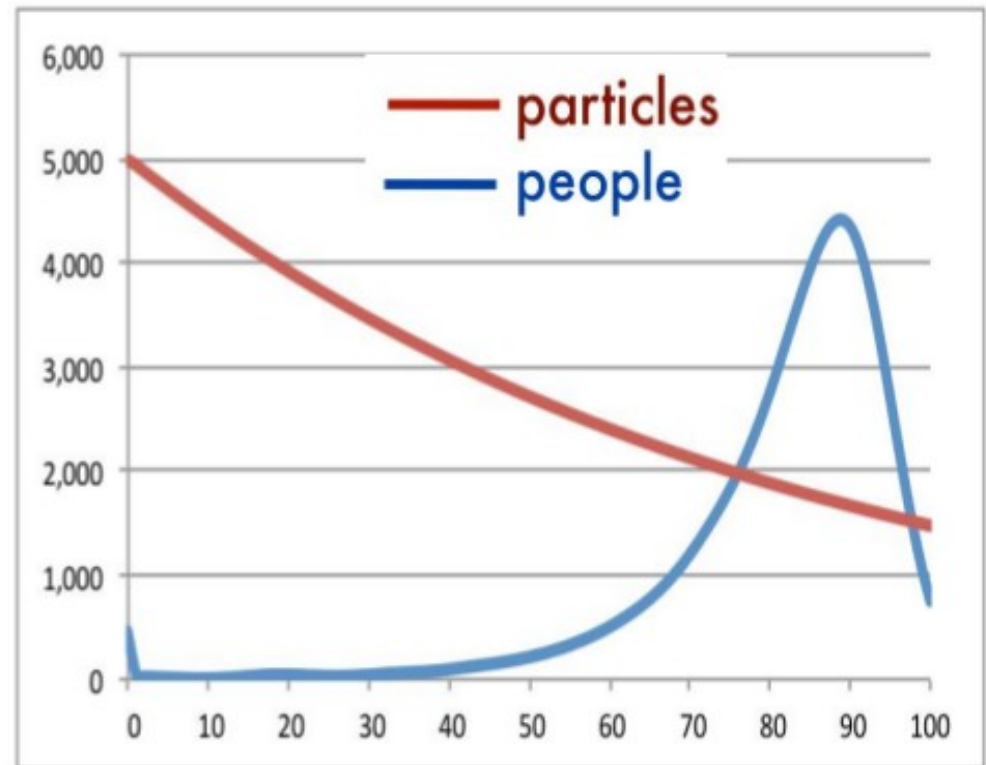
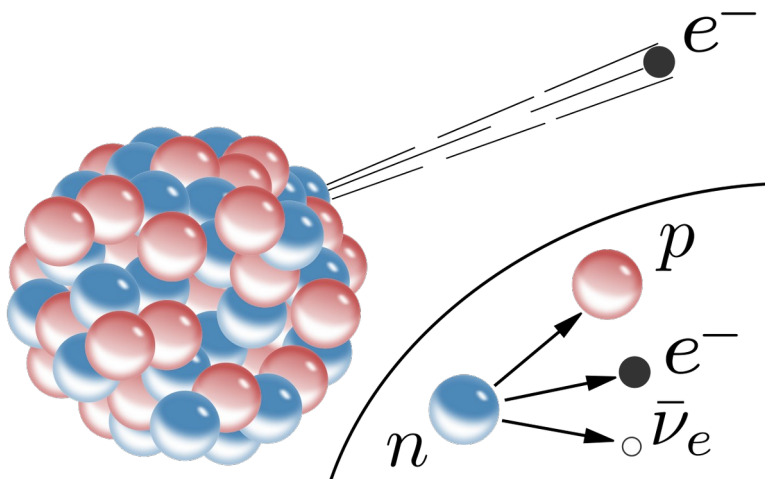
QUARK

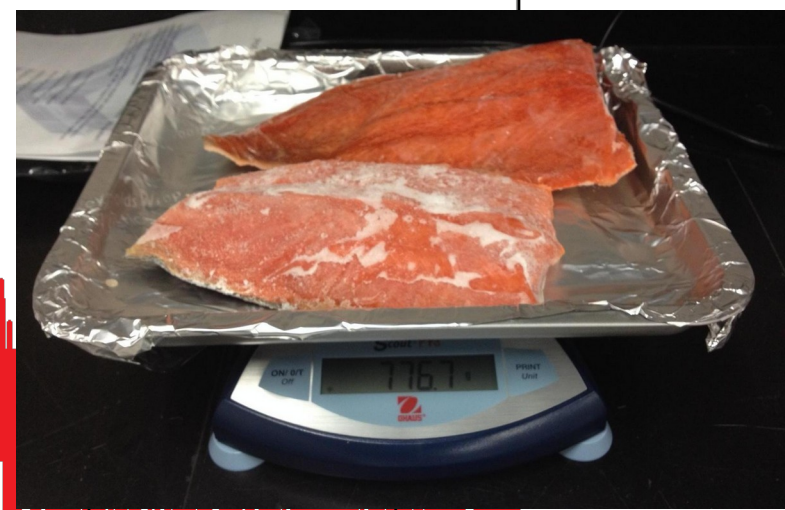
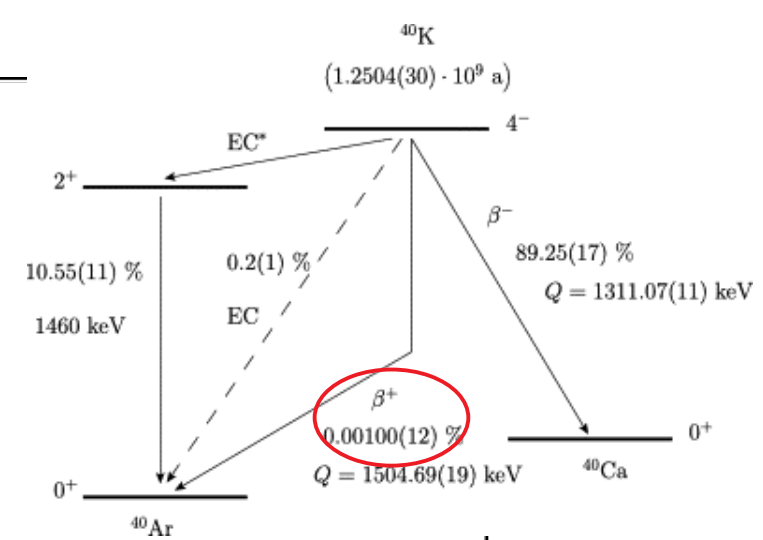
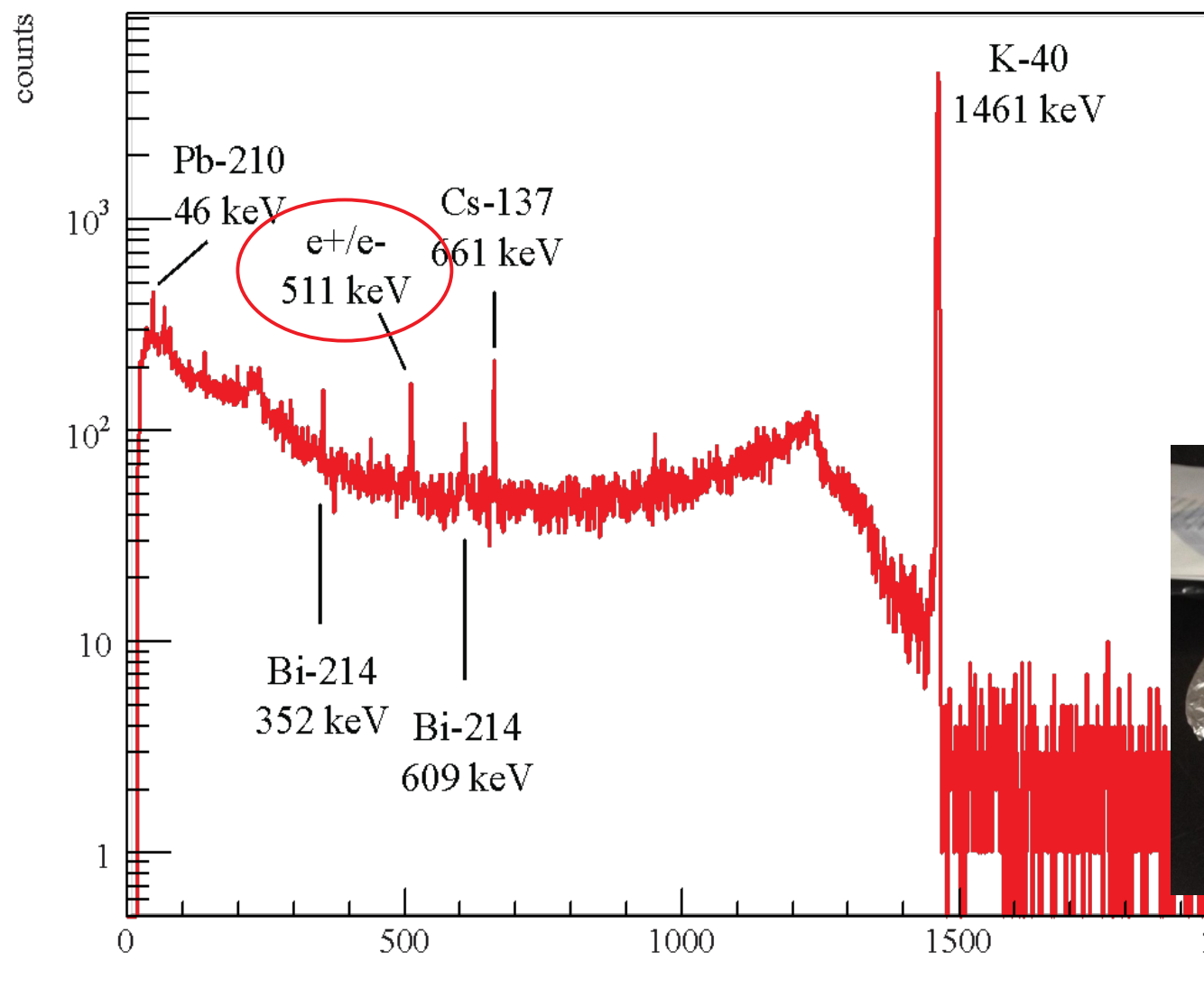
$< 10^{-16}$ CM





Decadimenti







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The PARTICLE ZOO

Sewing the fabric of spacetime

ZOO CART

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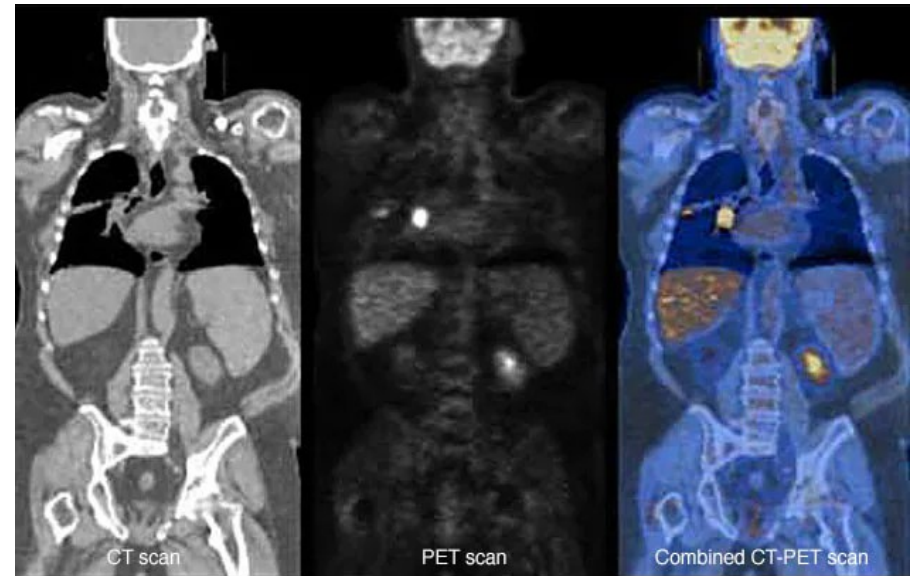
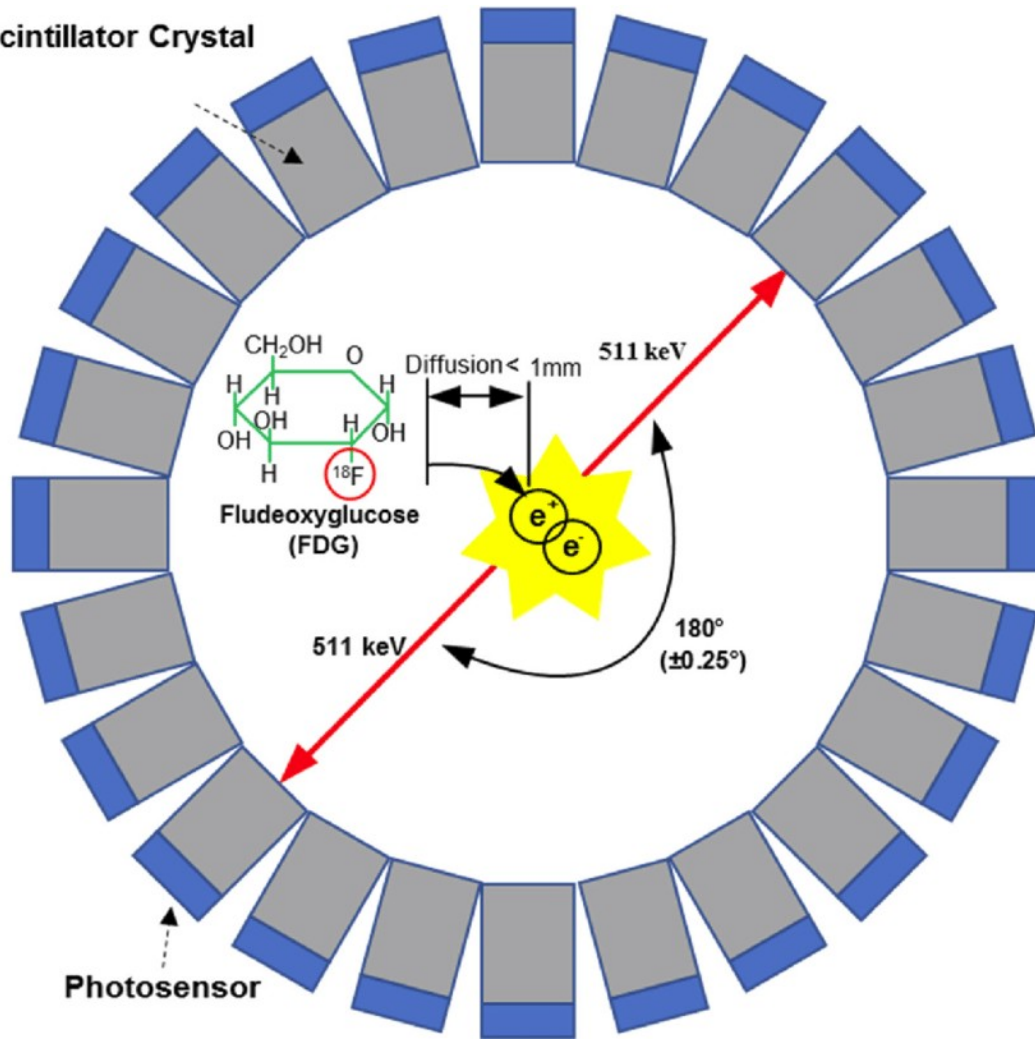
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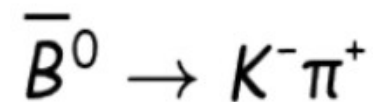
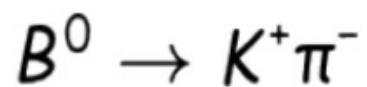
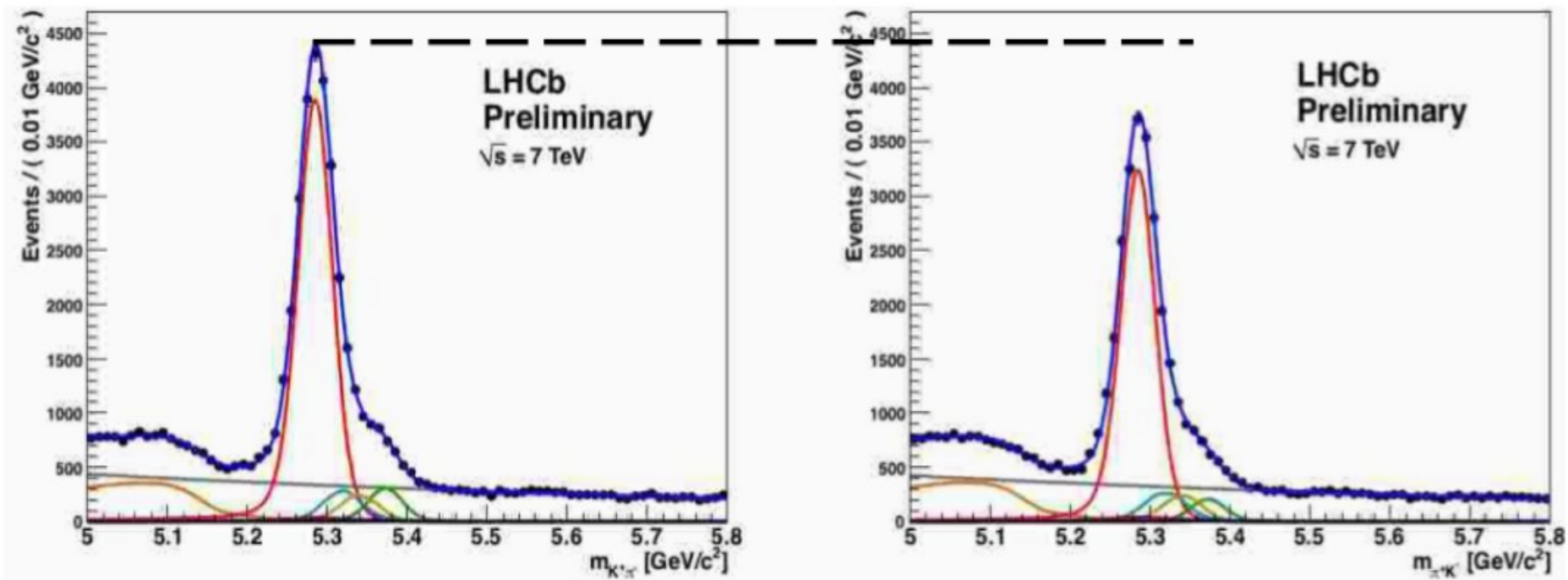


Scintillator Crystal



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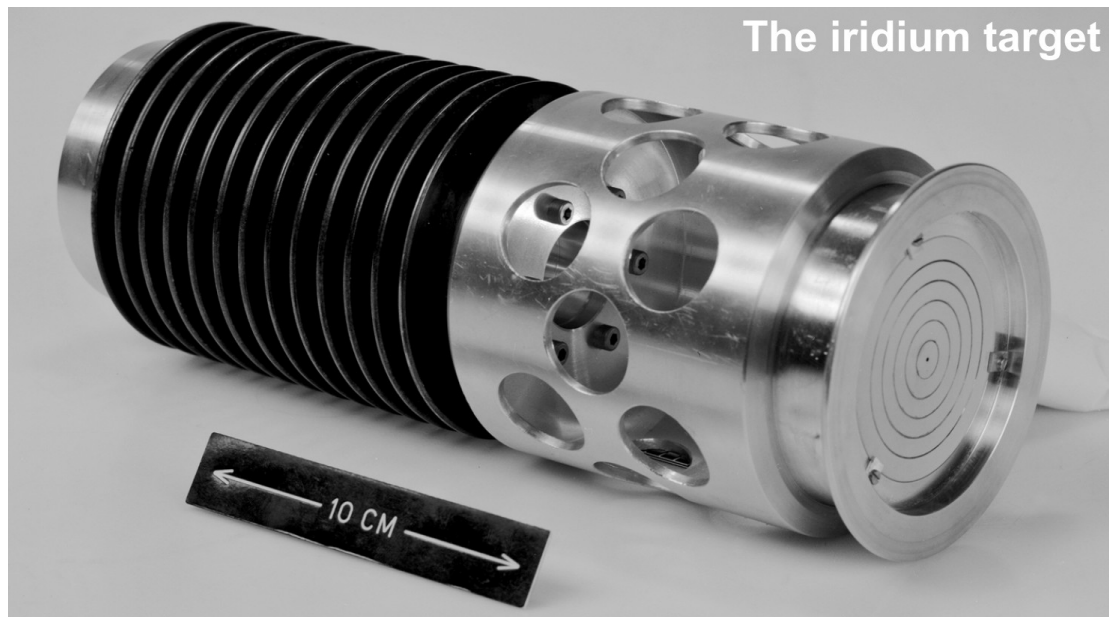




Materia e antimateria si comportano “quasi” nello stesso modo... ma solo “quasi”



INFN



The iridium target

10 CM

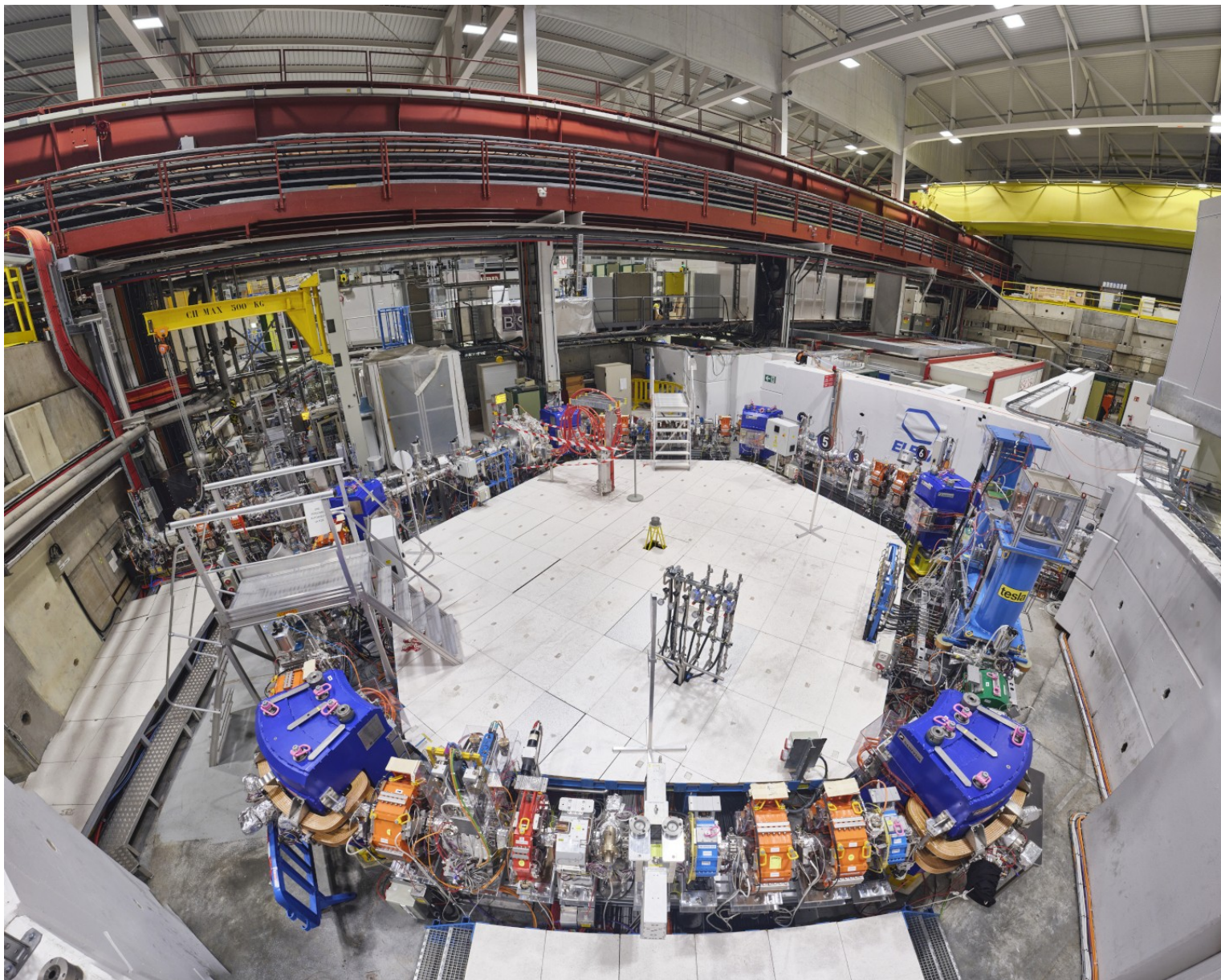


393



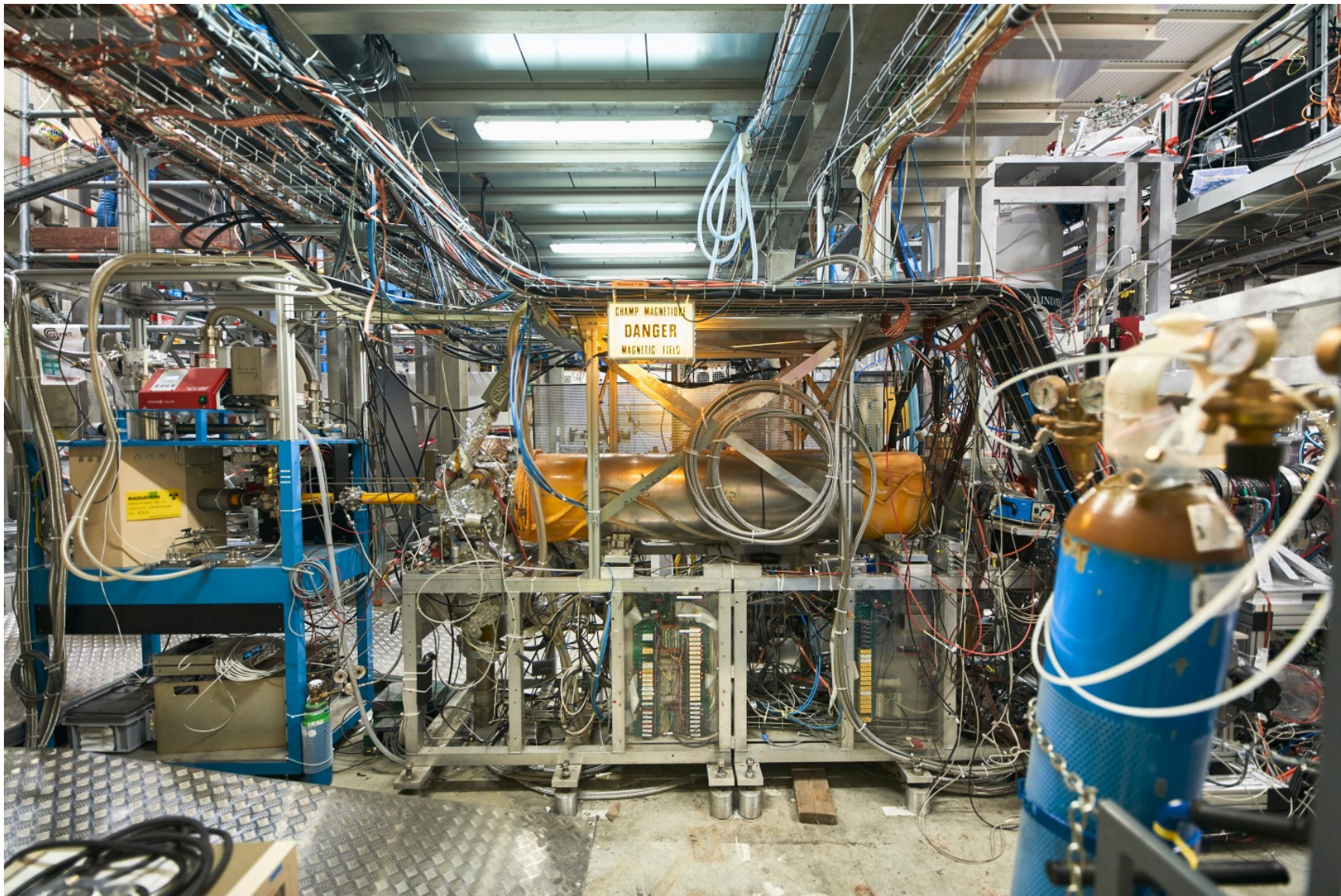
ANTIMATTER
FACTORY

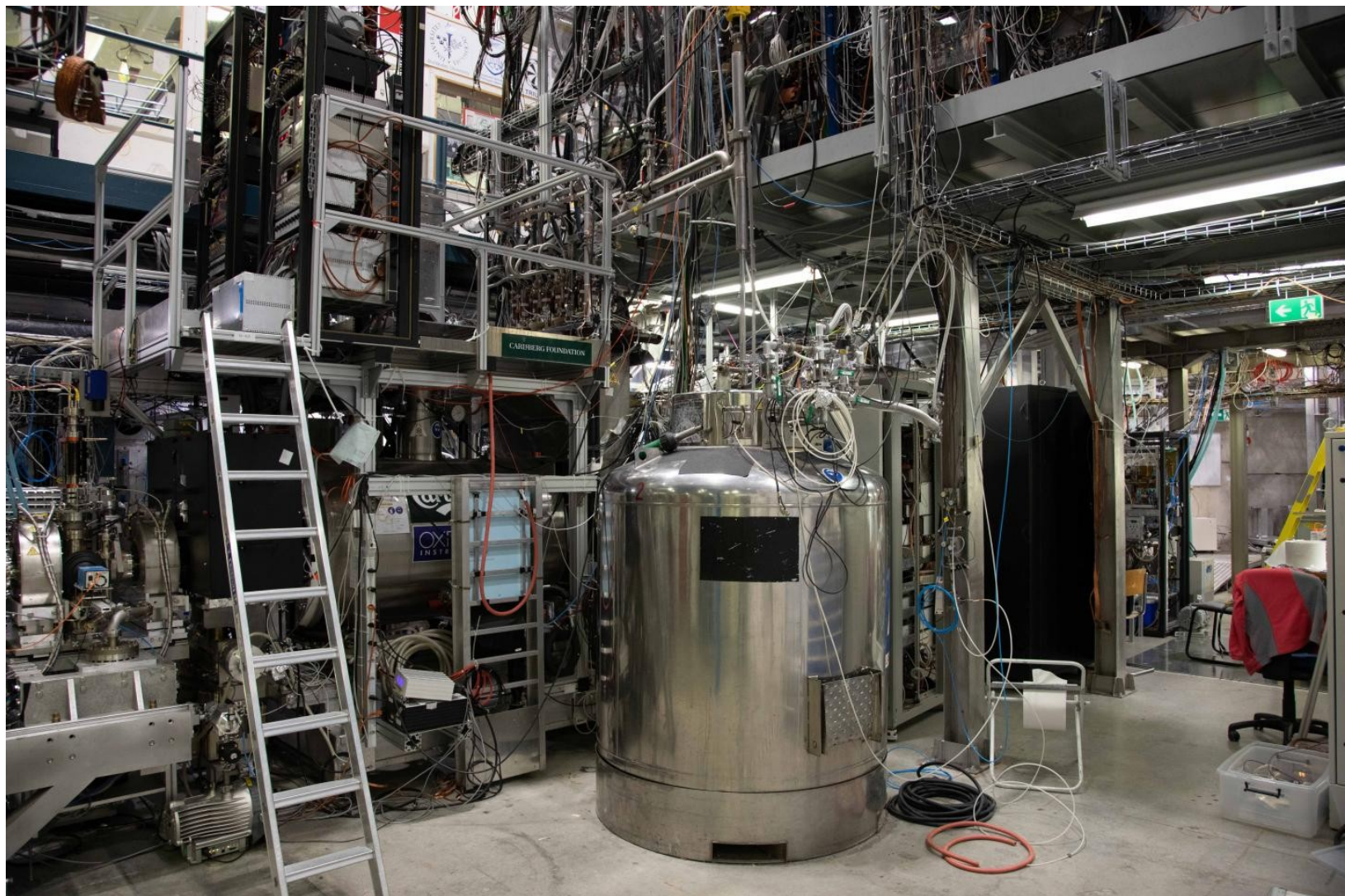




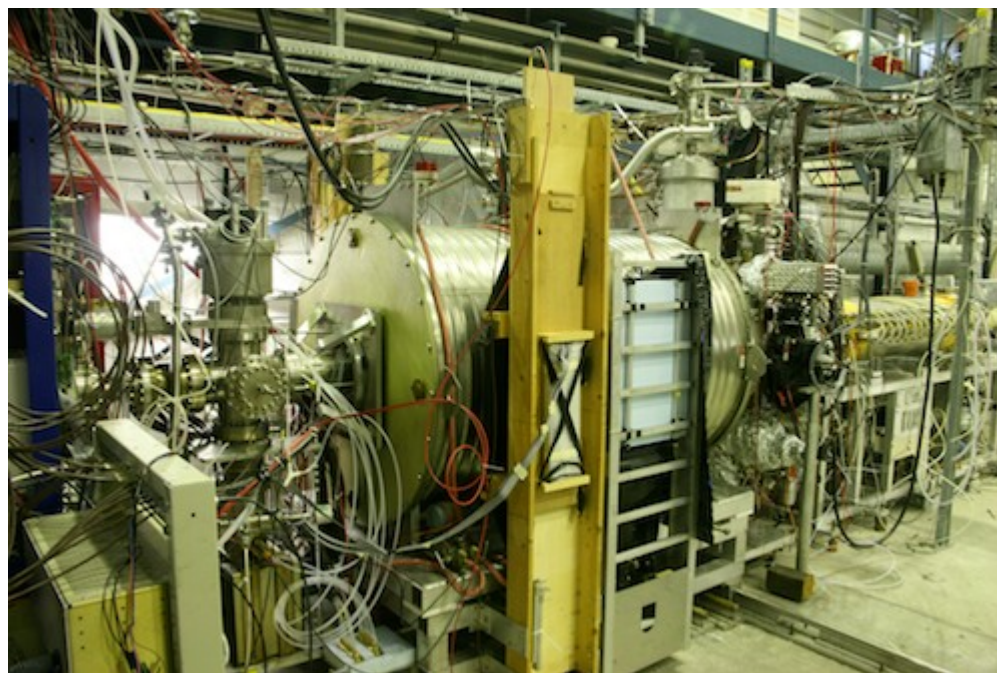


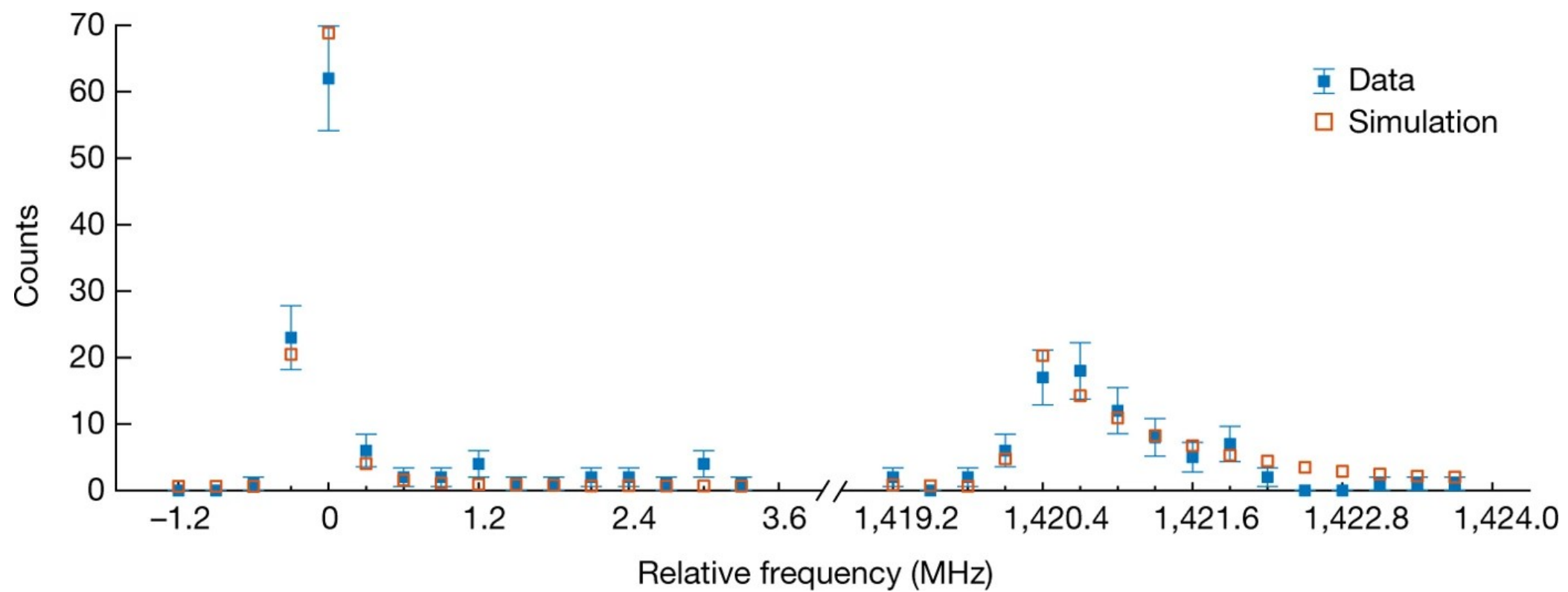


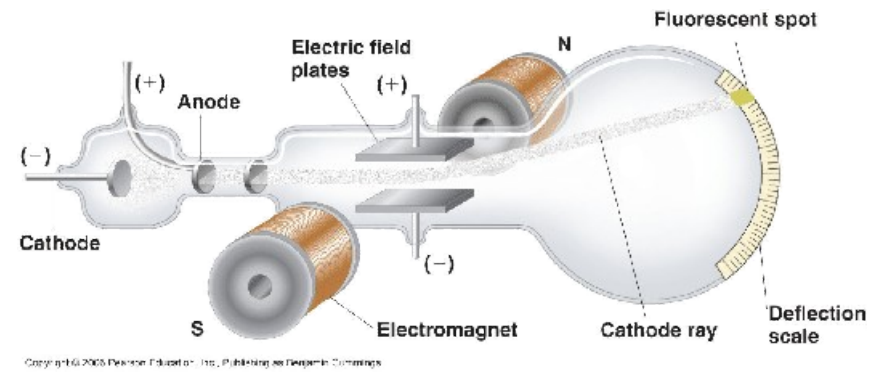
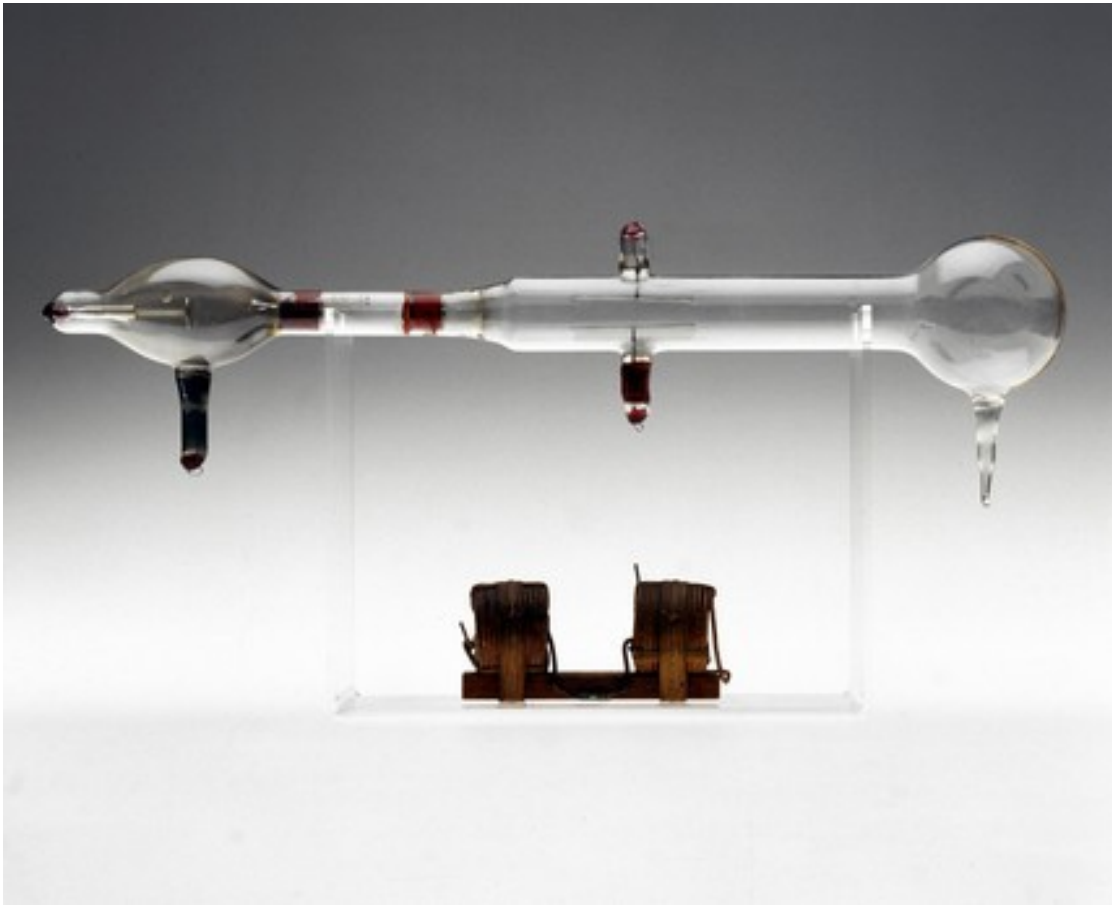












J. J. Thomson, 1897

"To the electron -- may it never be of any use to anybody"