

FERMICLUB — From ** Vigo ***



Geneva



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OUR HOME

THE CLUB

02.

A LITTLE ABOUT US

PRECEDENTS

THE PROPOSAL

05.







O1.SPAIN

















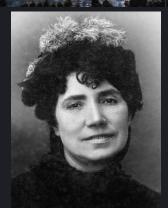
1. Vigo and Galicia



























02.

THE

FERMI

CLUB

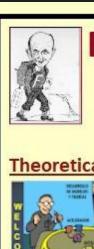








- Elementary Particles
- Cosmology
- Physics olympics
- CERN BL4S



PHYSICS CLUB

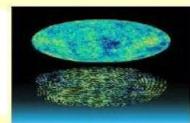
(Since 1990 - 2022)

Theoretical and practical sessions on:









FOR MORE INFORMATION, CONTACT WITH THE CLUB USING EMAIL: fermiclubgmail.com







BL4S 2018 : SHORTLISTED!!!

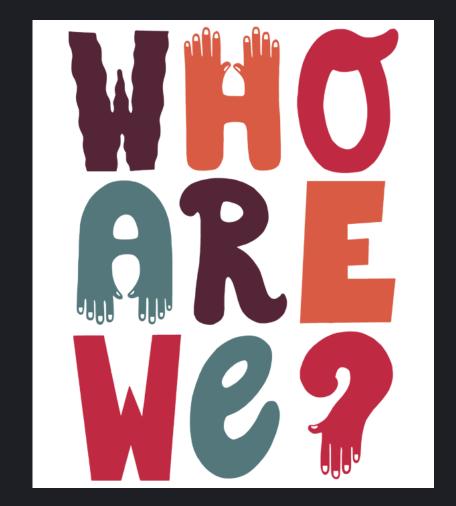








B3.









D3. PARTICIPANTS

Name: Melanie Martins Portela

Age: 17

Origin: Galicia, Spain

Studies: High School Hobbies: Fashion, poetry and music







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03. PARTICIPANTS

Name: lago Campos Mougán Age: 18 Origin: Galicia, Spain

Studies: Physics at USC Hobbies: Books and series of science fiction







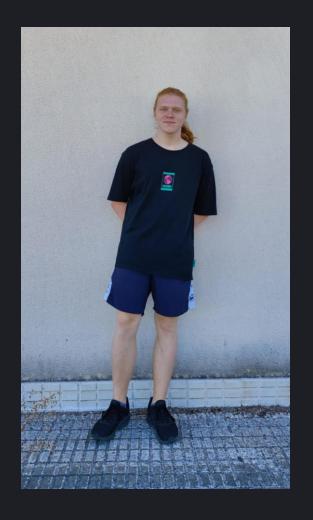
* 03. PARTICIPANTS

Name: Sergei Mitcek

Age: 16

Origin: Samara, Russia

Studies: High School Hobbies: Informatic, surfing and chill moments.



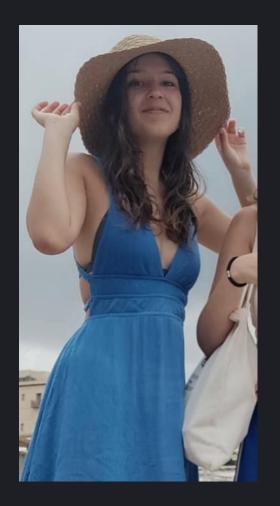




D3. PARTICIPANTS

Name: Victoria Da Silva Bembibre Age: 16 Birthplace: Galicia, Spain

Studies: International Baccalaureate
Hobbies: Swimming and dancing









03. PARTICIPANTS

Name: Diego Pérez Comesaña

Age: 18 Origin: Galicia, Spain

Studies: Chemistry at UVigo Hobbies: Football and Guitar







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U3. PARTICIPANTS



Name: Miguel Alejandro Torres Sequera

Age 17

Origin: Caracas, Venezuela

Studies: Chemistry at USC Hobbies: Sports, singing and dancing







D3. PARTICIPANTS

Name: Martín Bar Vieito Age: 17 Origin: Galicia, Spain

Studies: High School Hobbies: Playing handball and the guitar



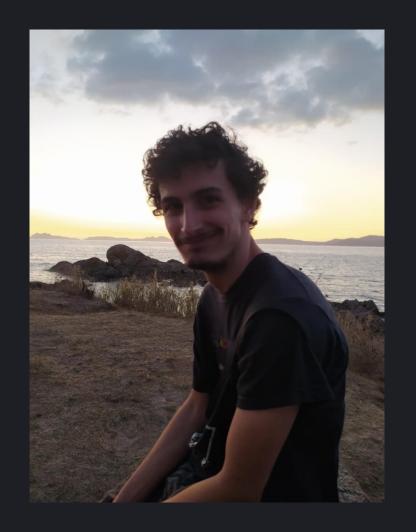




* 03. PARTICIPANTS

Name: Martín Zamora Rodríguez Age: 17 Birthplace: Galicia, Spain

Studies: Chemistry at UVigo Hobbies: Listening to music and hiking









03. PARTICIPANTS



Name: Yago Radziunas Salinas Age: 22 Birthplace: Barcelona, Spain

Studies: Physics Master at USC Hobbies: Playing tennis







U3. PARTICIPANTS

Name: Juan Garzon (Hans) Age: 71 Birthplace: Madrid, Spain

Studying Retired Physicist Hobbies: Travelling and reading



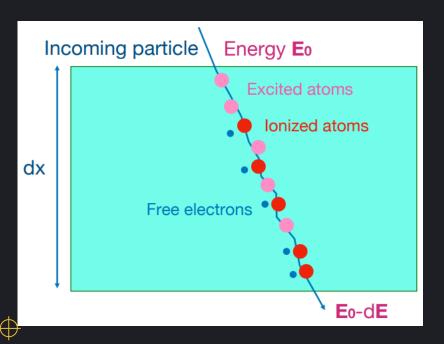


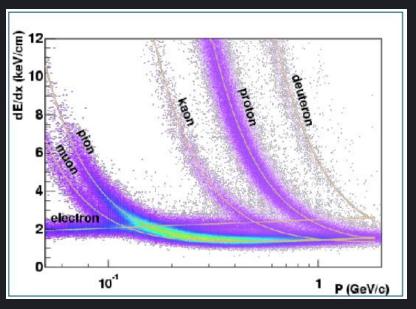


Experimental precedents

A charged particle crossing the matter **losses** part of its energy by both:

- atom excitation
- atom ionization





Specific energy loss (dE/dx) as a function of the momentum for different particles

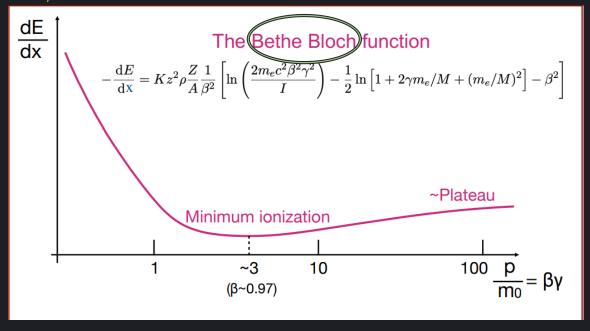




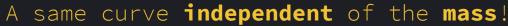
Experimental precedents



The energy loss all charged particles (but electrons) follows the **same behaviour** when it is represented as a function of their momentum/mass ratio.





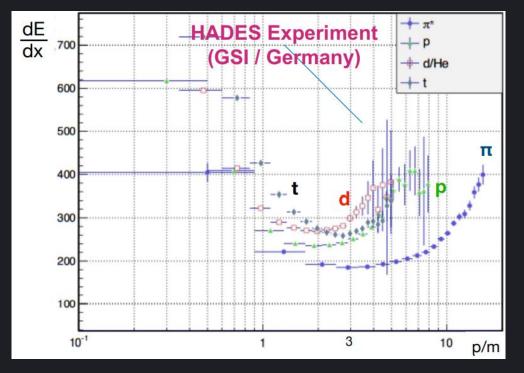






but... an unexpected result!





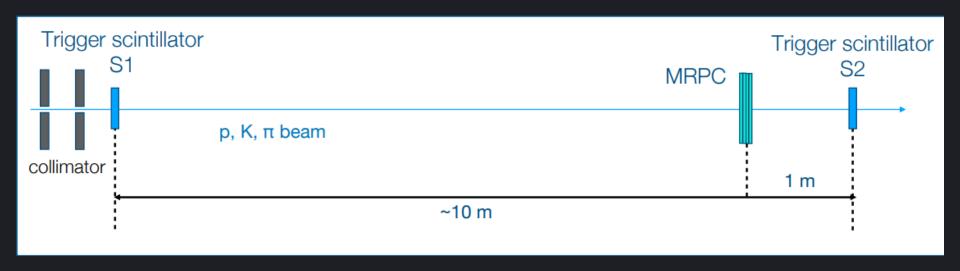
dE/dX measured at an **RPC** detector seems to show a **mass dependent** behavior





Our proposal: Experimental layout





Basically we want to measure **Stopping Power** different **mass** particles at different **velocities** (p/m ratios)

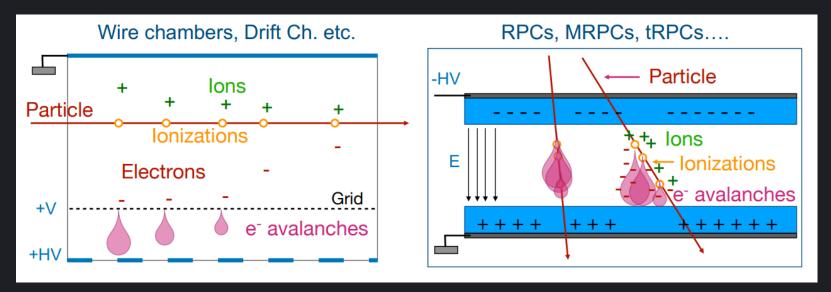


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Why RCPs could behave differently?

Wire chambers, Drift Ch., etc...

RCPs, MRCPs, tRCPs ...



<u>Unlike other detectors</u>, in RPCs, e- avalanches develop in the **same direction** as the incoming particle.



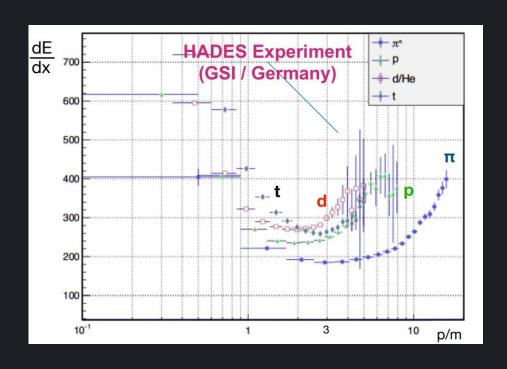
Our Path To Nobel Prize



If the bizarre HADES behaviour is **confirmed**



Revolutionary Method for Mass Estimation would be discovered!!







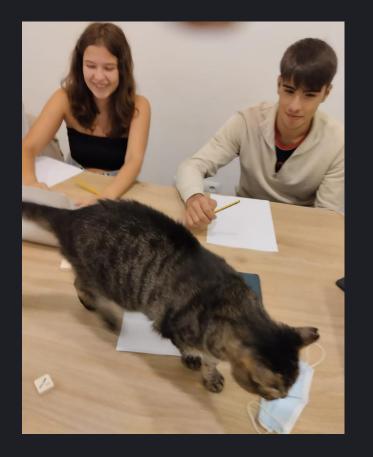
PREPARING OUR VISIT TO CERN



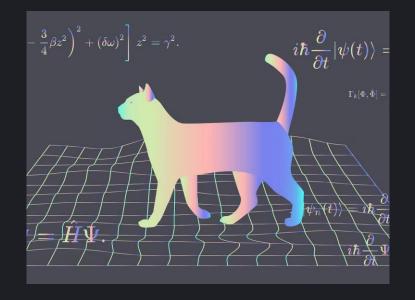








OUR Schrödinger's cat: *CHUPITO*



Until now, our experiment is = $\frac{1}{2}$ SUCCEEDING + $\frac{1}{2}$ FAILING









Thank you for your attention and patience <3



