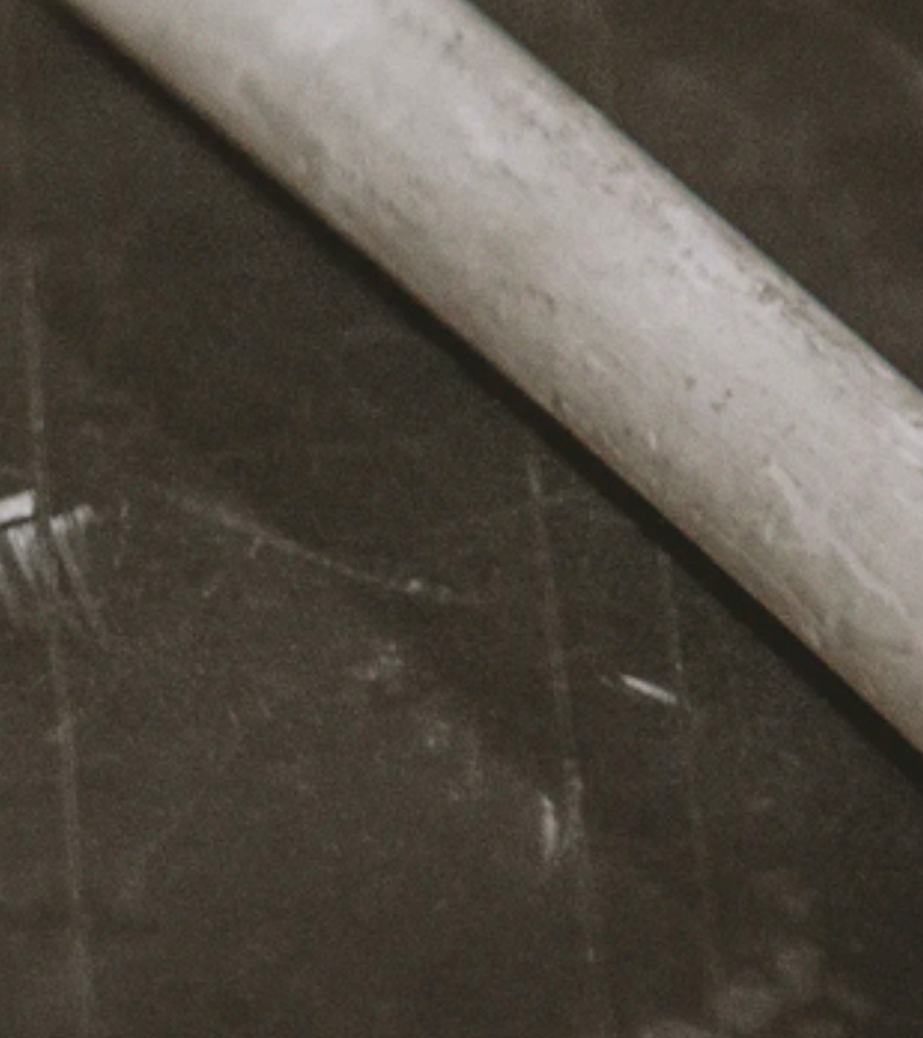


CAREER TRANSITION FROM RESEARCH TO SCHOOL TEACHING

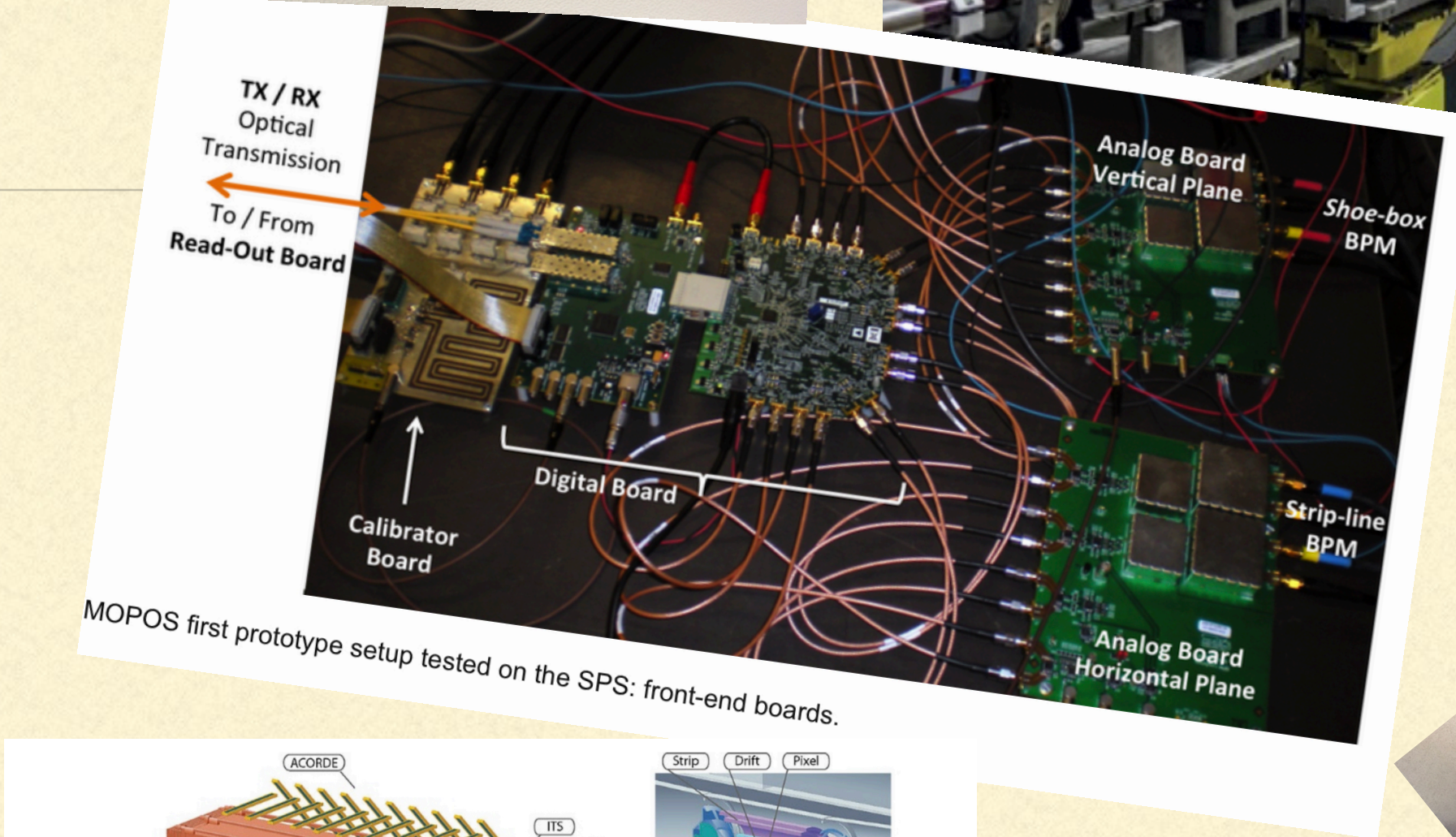
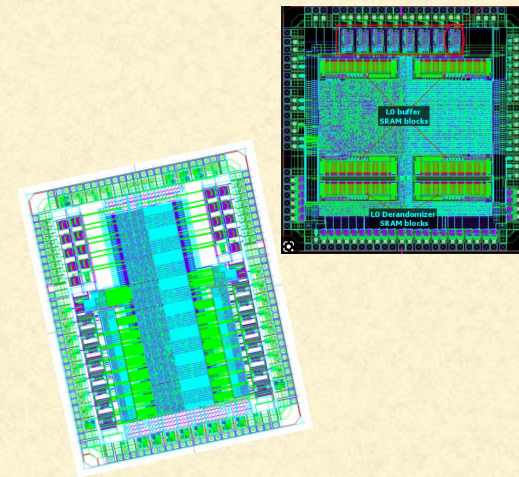
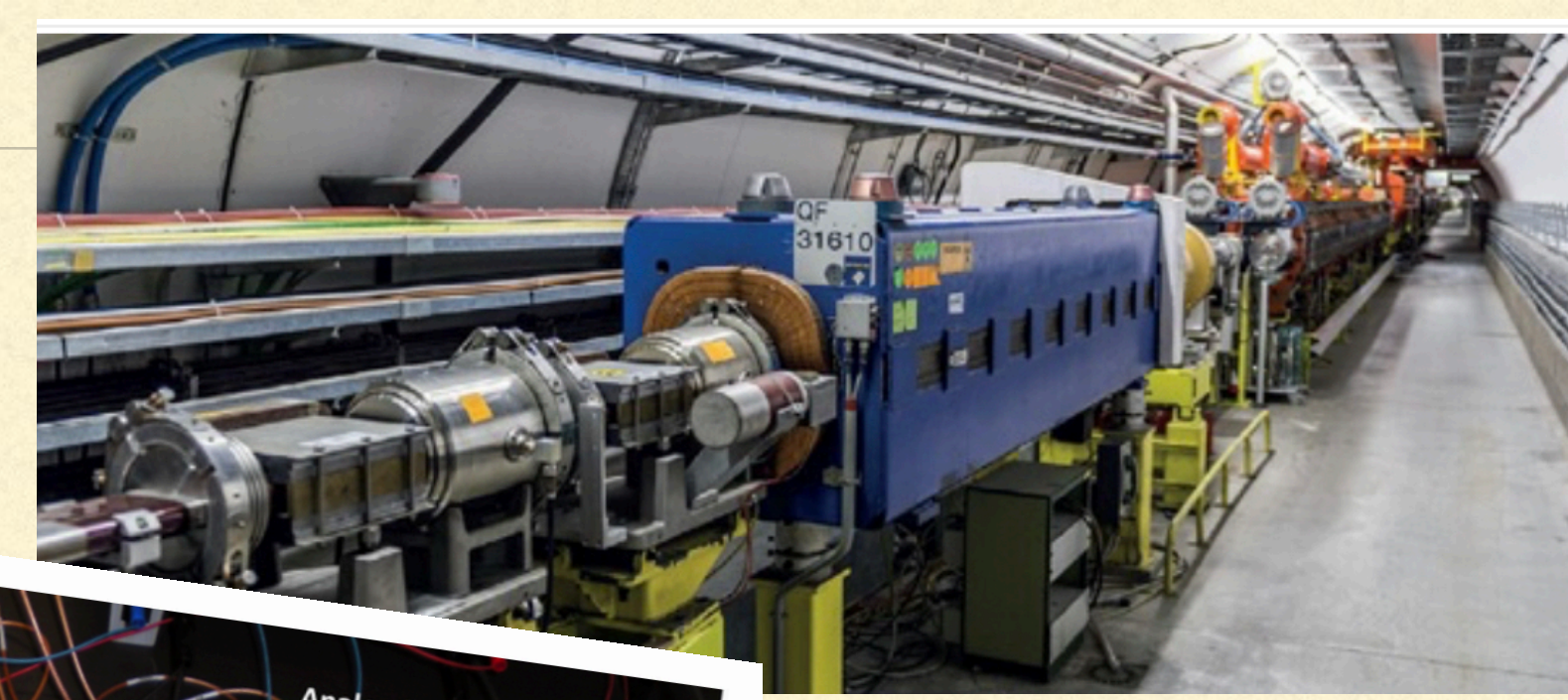
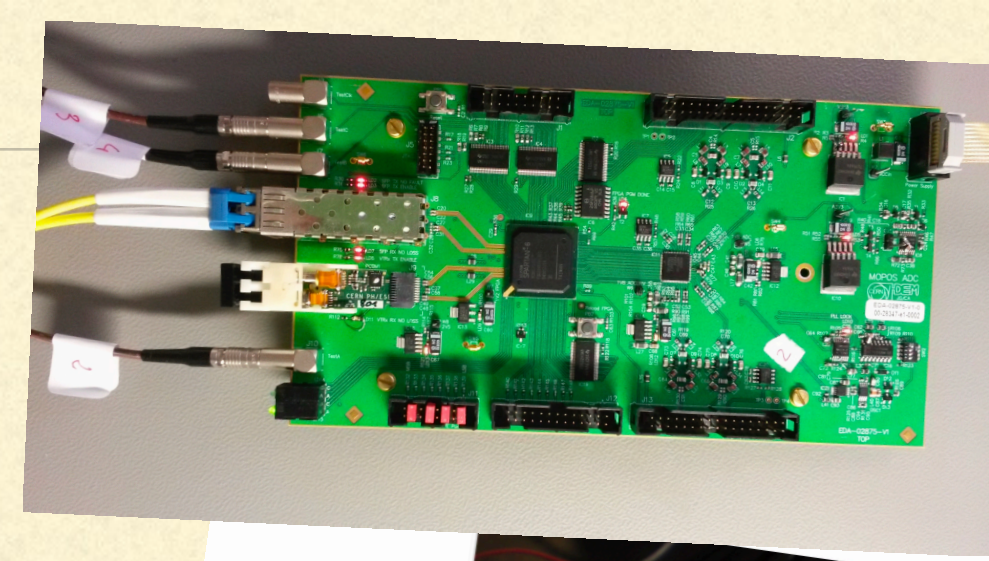
Back
to
School



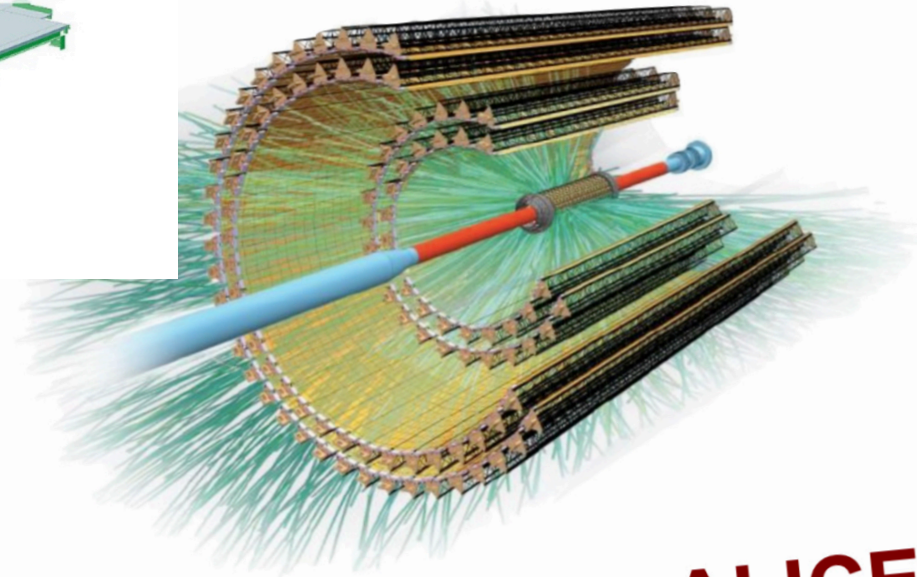
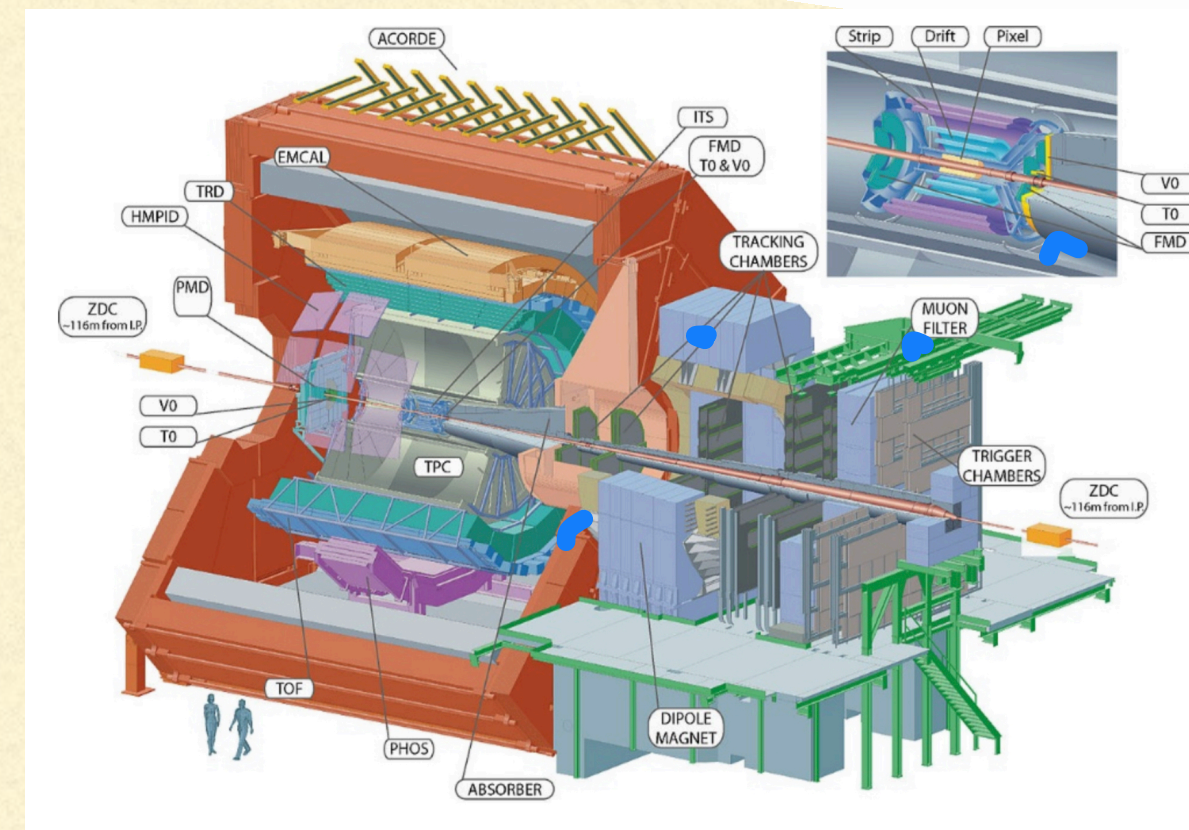
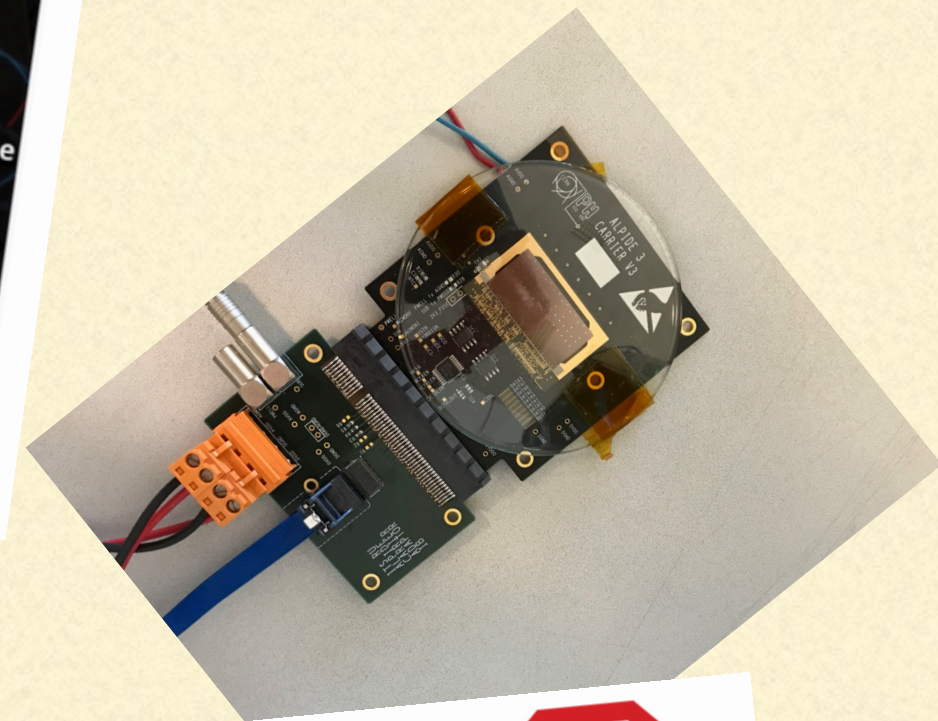
OUTLINE

- Working @ CERN
 - Moving to teach ! What's needed ?
 - My path : french language and didactical certifications
 - Firsts years back to secondary school
 - Previews career : useful ?
 - The new job : good and bad
-

WORKING @ CERN



MOPOS first prototype setup tested on the SPS: front-end boards.



The Upgrade of the ALICE ITS



MOVING TO TEACH ... WHAT'S NEEDED ??

- I wanted to move to the **secondary public schools in Geneva**, to teach **physics** and **mathematics** to pupils between 13th and 15th years old.



- **What's needed ?**

- Speaking and writing **French** at a good level
 - A didactical and pedagogical **certification** to teach in the secondary schools
 - A real **interest in teaching to** who don't want to study !
-

LEARNING FRENCH : MY PATH



- I got the international certifications **DELFB2** and **DALFC2** before leaving **CERN** — 1,5 years
- I haven't studied French at school. I **learned** the language :
 - @ CERN, two French courses
 - @ IFAGE (2 more courses !)



Useful links :

- **IFAGE** : <https://www.ifage.ch/formation/langues/cours-francais/francais-general/>
- **DELF / DALF** : <https://www.delfdalf.ch>



SECONDARY EDUCATION MASTER : MASE — 2 YEARS

Requirements :

- Physics : a master degree (120 European Credit Transfer System credits)
- Mathematics : 90 ECTS minimum
- A French language certification to enroll to the Geneva university (DELF B2 or a French exam at the university)
- Got a stage in the Geneva public secondary school, assigned by DIP (Département de l'Instruction Publique)

Useful links :

- **IUFE** : <https://www.unige.ch/iufe/formations/forensec/>
- **MASE** : <https://www.unige.ch/iufe/index.php?cID=870>



Entrée principale d'Uni Mail, © Yan, Rui Stephan



SECONDARY EDUCATION MASTER : MASE



Application / Selection phases (translation ⚠️) :

- Difficulty to find all **documents** (originals papers of master and phd, list of contents of each university exam) 😞
 - **Credits conversion** of the Italians **master** and **phd** : automatically done in the selection process 😅 ⚠️
 - I discovered not to have enough ECTS credits in mathematics : I missed 18 credits, so 3 or 4 more exams in maths 😱
-

SECONDARY EDUCATION MASTER : MASE



- **The application must be done almost one year before !** ⚠️⚠️⚠️
 - Geneva **public school** : already **closed** ; application process started in August 2023 ; deadline 7 November
 - Geneva **private school** : **still possible** for stages in private school ; deadline 7 March 😅
- **More info** here : <https://www.unige.ch/iufe/formations1/forensec/inscriptions/admissions-2022-2023/>

All the **process is well explained** and documented on the UNIGE web site; interacting with the Geneva university is fast and efficient 👍

FIRSTS YEARS AT SCHOOL : THE TRANSITION



- **I had zero experience** in dealing with teenagers 😅 ➡ If you can, **start with** some **substitutions** !!! 😎
 - Service de remplacement : <https://www.ge.ch/devenir-remplacant/conditions-inscrire-enseignement-secondaire>
 - **GOOD POINTS** : Maitre mentor; team work with colleagues; pedagogical and didactical notions via the MASE
 - **BAD POINTS** :
 - The MASE is 50% studying at university and 50% teaching at school = 150% work time 😬
 - Prepared to be considered a student (even if this has been useful to empathize with my own students !)
 - Teaching evaluation during the stage
 - Difficulty to conciliate study, work and personal life during the formation period (possible to adapt the MASE duration to 3 years)
-

FIRSTS YEARS AT SCHOOL



■ Remarks

- French language and **foreign accent** : fortunately the kids like the Italian accent ! With a bit of humor the accent is not a problem, but it is **fundamental** to **continuously improve the language**
- **Long** career transition ... My path :
 - I left CERN in may 2018
 - I started the MASE in august 2018
 - I got a contract to teach physics in august 2020
 - I have been confirmed in august 2022 😎
 - For Mathematics : just got the missing credits ; applied for the didactic certification CSDS in 2023-24 😄

HOW RESEARCH EXPERIENCE IS USEFUL (OR NOT !) IN MY NEW JOB

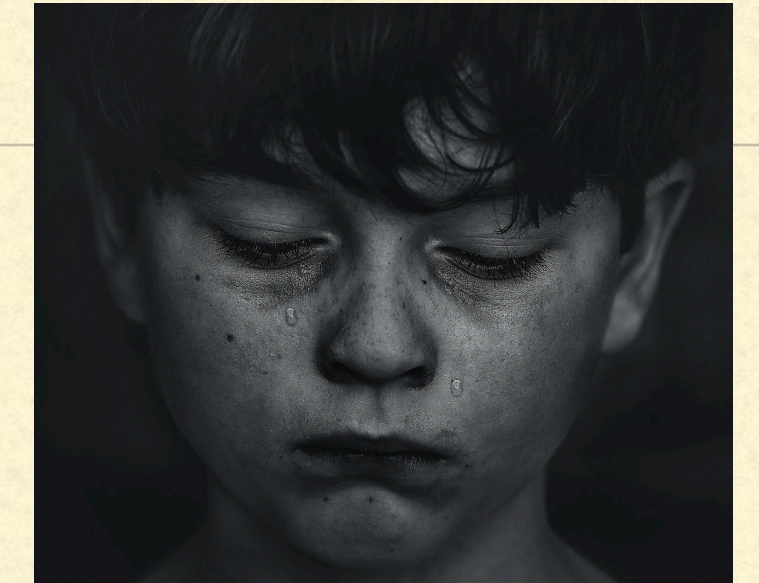
- I had to deal with **some prejudices of over-qualification** 😬
 - “since you have been a researcher you cannot explain simple things to kids”
 - “this new job is just because you cannot stay at cern anymore”
 - “your will be frustrated teaching to teenagers” ...
- **Useful** (a lot !) : organization and computing skills, project management, group working, team leading, lab experience, communication and mediations skills ... 😎
- Started from **an entry-level salary** 😐 : the research work has not been recognized as previous experience by the DIP



WE ALL BEEN AT SCHOOL BUT A FEW OF US HAS BEEN ON THE OTHER SIDE OF THE FENCE !

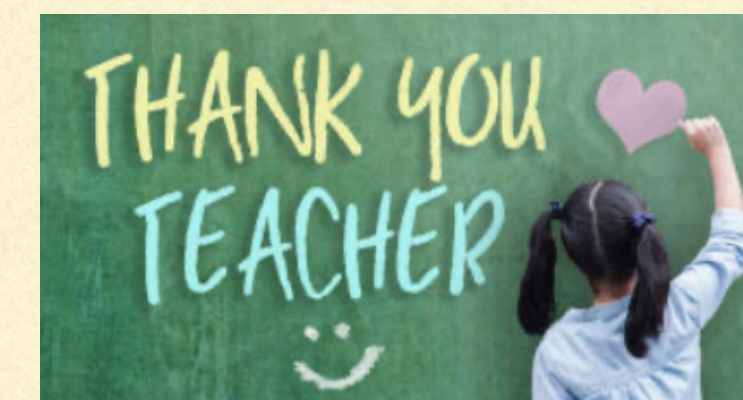
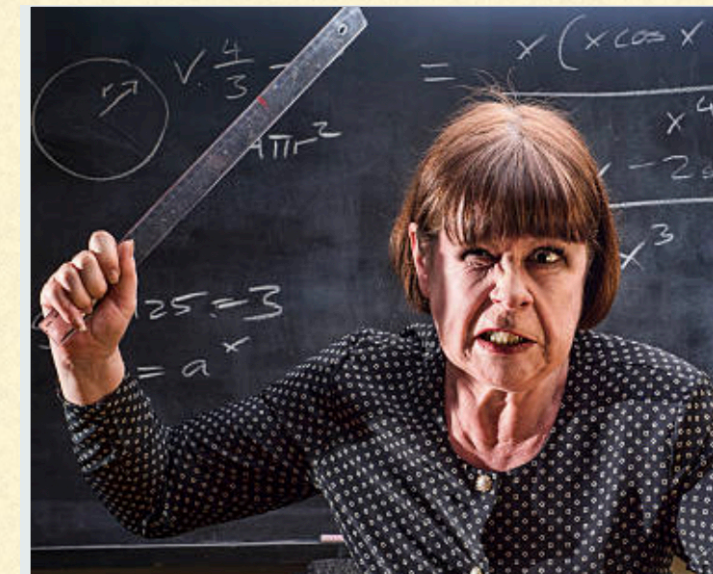
■ What's difficult in my new job : the teenagers !

- Kids motivation can be hard to get ; no interest to learn ; why its useful ?
- Provocations ; insolence ; negative team dynamics ; bullying
- To be seen as the enemy !



■ ... and what I love !

- Kids **enthusiasm** for unexpected results ; kids ideas and suggestions ; be in the good moment and in the good place to **help**
- Interaction with the parents ; team work with the others teachers
- **The same lesson is never the same !**





THANKS YOU FOR YOUR ATTENTION
BON COURAGE !!!

CATERINA DEPLANO



Caterina Deplano is an Italian physicist living in Geneva since 2007.

She received her master and her PhD in physics working on the LHCb muon detector (GEM and ASIC development). Always looking for new challenges, she has been a post-doc in LHCb till 2011 with a leading role in the detector commissioning and first data taking, a CERN fellow in BI for the development of a new SPS beam instrumentation monitoring, and finally a technical scientist in ALICE for the Inner Tracking System data taking and upgrade.

Mother of two kids, fascinated by the child development and learning process, she left CERN in 2018 to change her career and become a physics and mathematics school teacher for pupils between 13th and 15th years old.

She studied pedagogy and didactic at Geneva university and she is currently working in the Geneva secondary-1 school system.

PICTURES CREDITS

- Photo by [Deleece Cook](https://unsplash.com/@deleece?utm_source=unsplash&utm_medium=referral&utm_content=creditCopyText) on [Unsplash](https://unsplash.com/@deleece?utm_source=unsplash&utm_medium=referral&utm_content=creditCopyText)
 - https://unsplash.com/photos/asviIGR3CPE?utm_source=unsplash&utm_medium=referral&utm_content=creditShareLink
 - <https://teachersintransition.com/teacher-stress/teacher-stress>
 - https://unsplash.com/photos/28SIUBUM7aQ?utm_source=unsplash&utm_medium=referral&utm_content=creditShareLink
 - https://unsplash.com/photos/NPmR0RblyhQ?utm_source=unsplash&utm_medium=referral&utm_content=creditShareLink
 - <http://clipart-library.com/clipart/RkTKqRKij.htm>
 - <https://clairelommeblog.wordpress.com/2015/08/28/cest-quoi-un-prof-de-maths/>
-