



SOLVAY

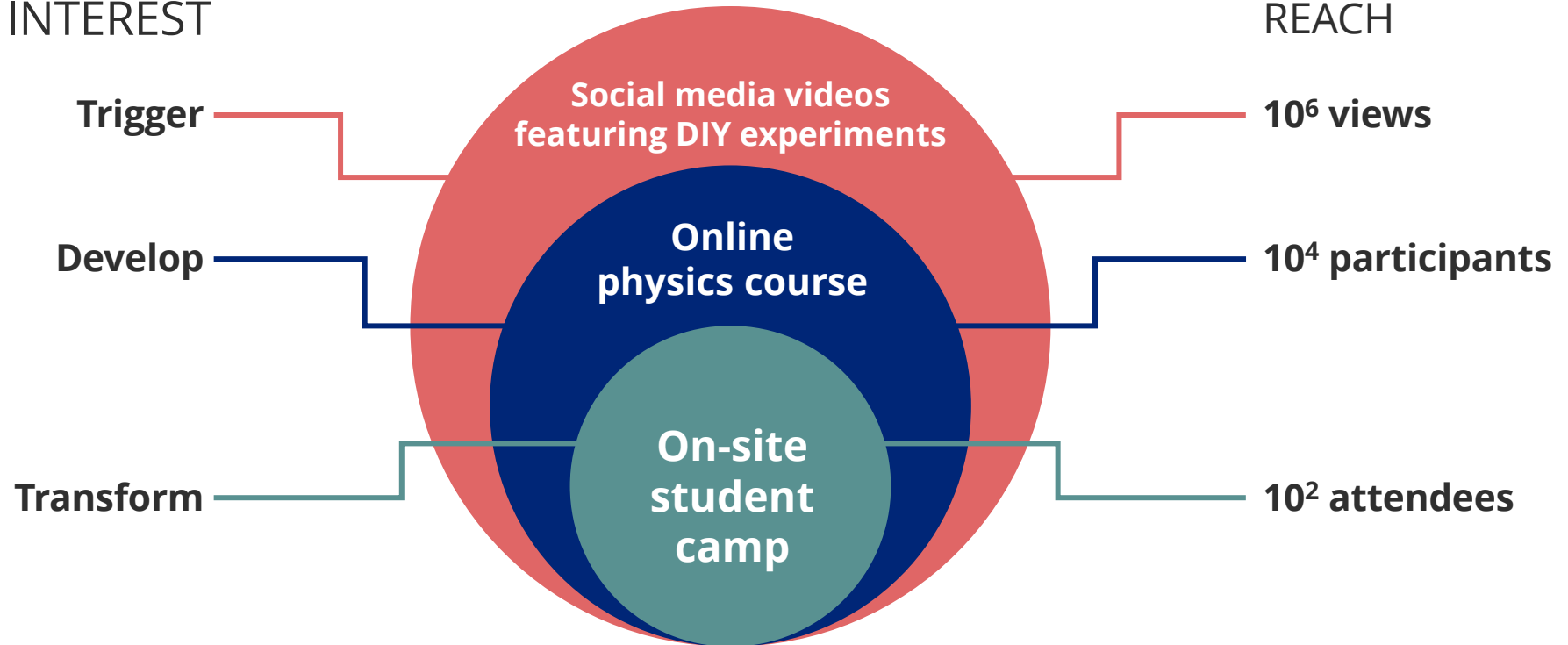
The CERN-Solvay Education Programme

Guillaume Durey, Science Gateway Education, IR-ECO-TSP

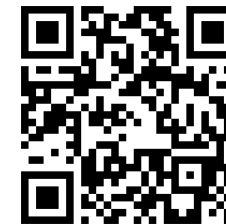
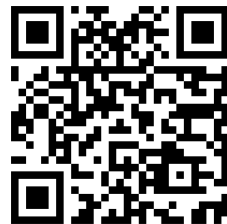
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STEM INTEREST

REACH

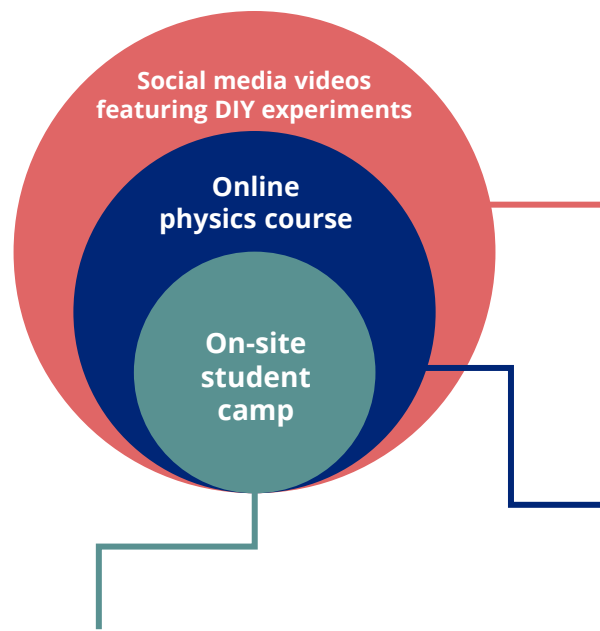


cern.ch/solvay-education

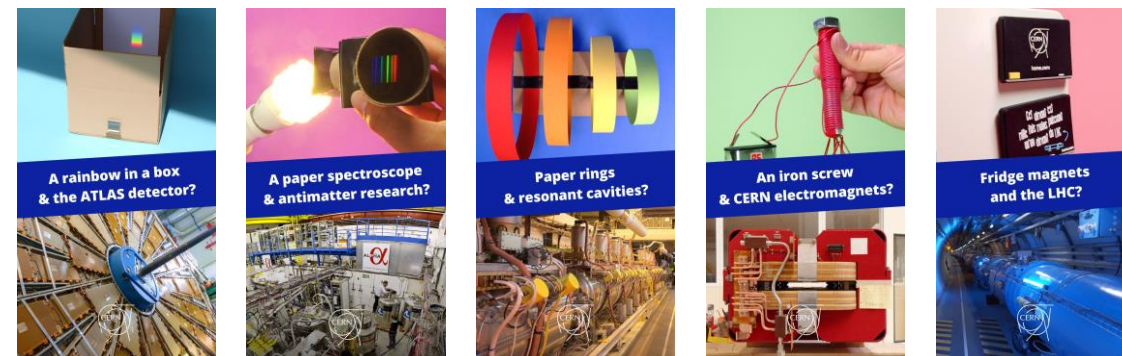


youtube.com/CERN

2.5 years of content creation



8 shorts



5 course videos (+4)

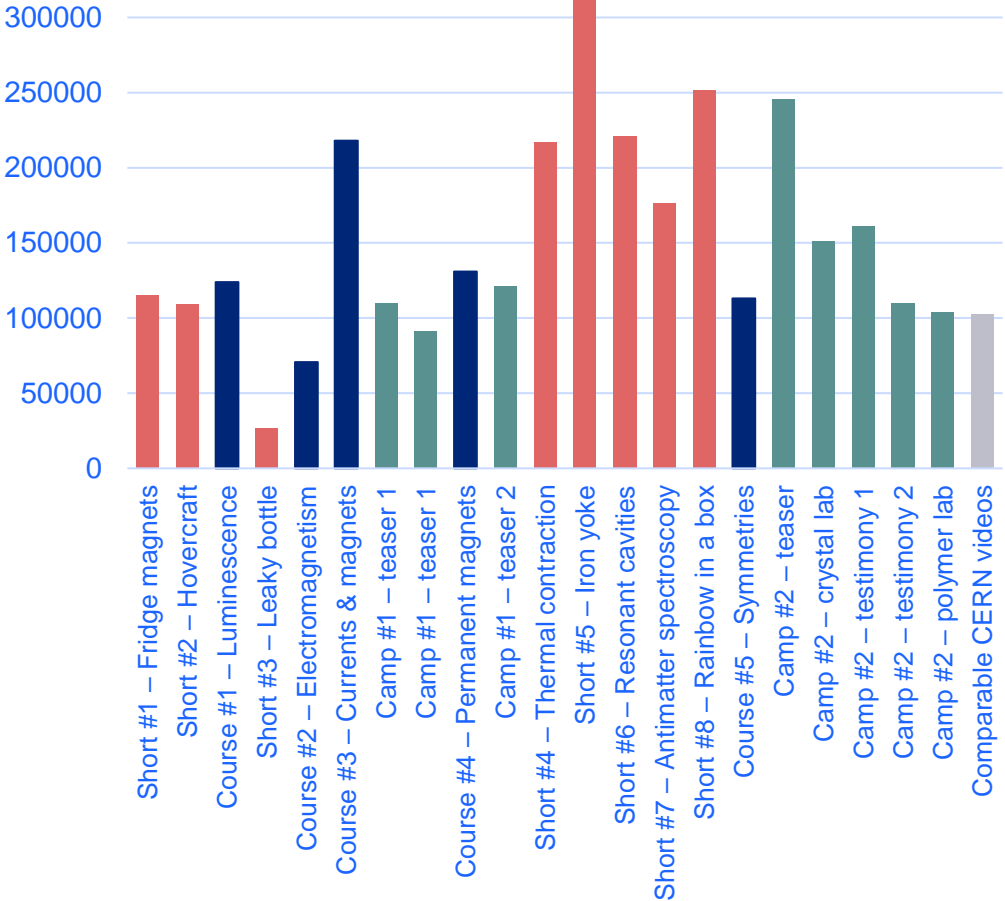


2 camps (+1)

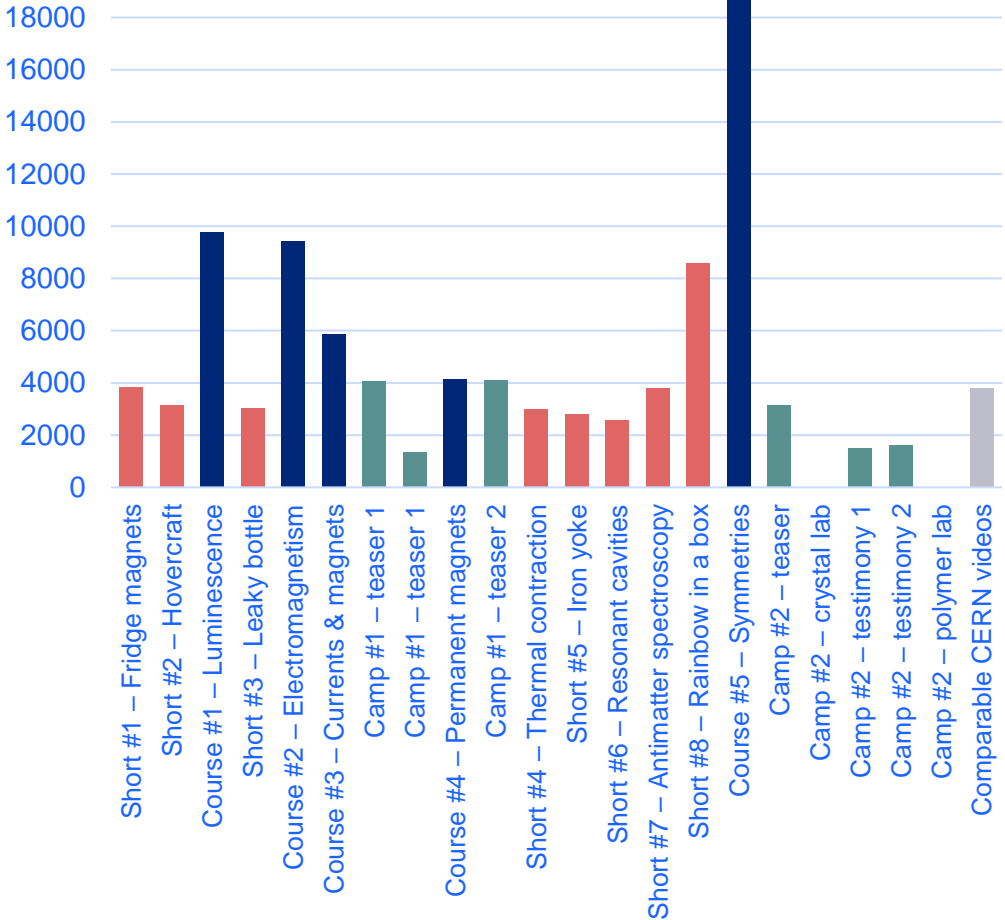


Video views

Instagram



YouTube

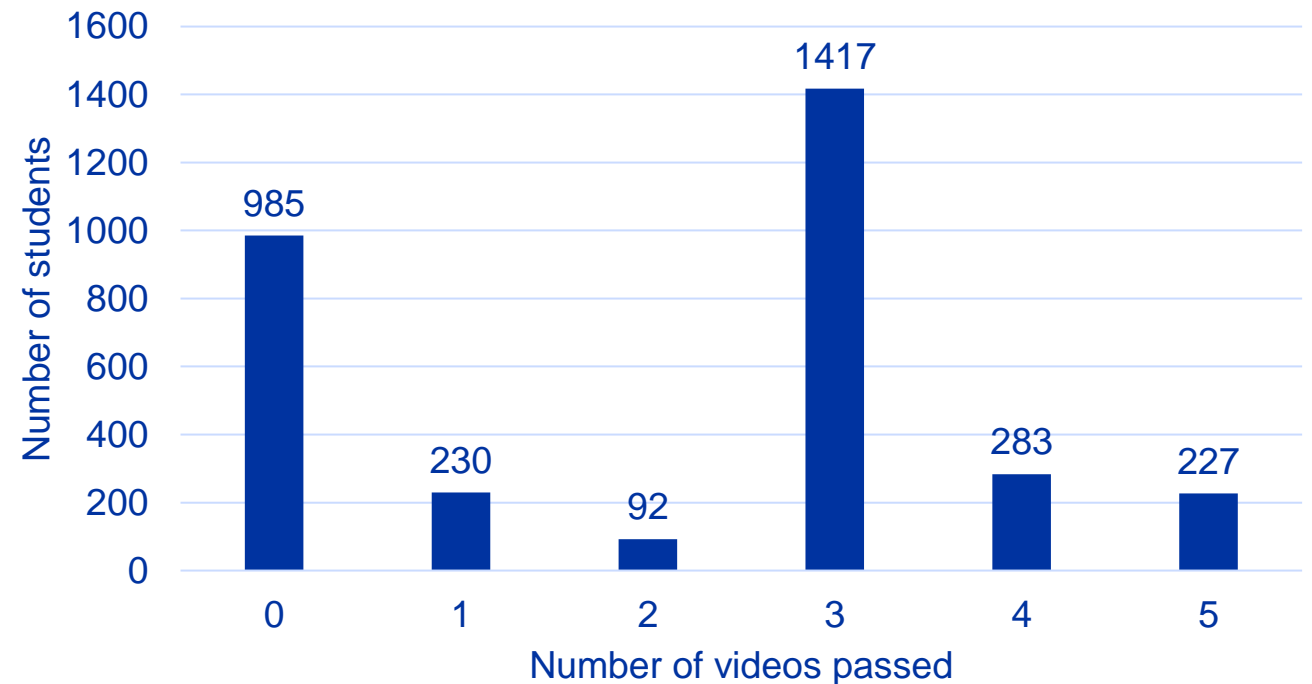


CERN-Solvay online physics course

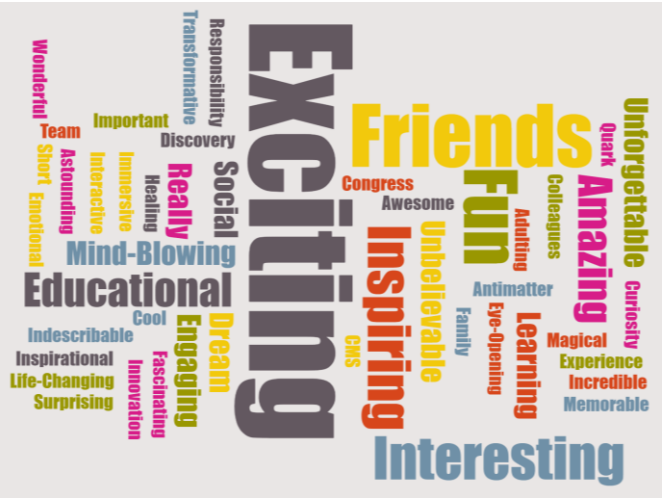
(23 September 2024)

- **3240 non-CERN users**
- **1927 certificates delivered**
- **60 % course completion rate**

How many students passed how many videos



International student camp feedback



“

Meeting new people and exchanging differences between cultures. The two incredible teachers, Anna and Jean Pierre, that were always there for us; and of course, the enthusiasm Guillaume had while talking with us. The people really made a big difference.

It was like a transform for all my perspective and I would love to go there again. It is a place where I can truly be myself.

They highlighted the heart of innovation, technology and personality in CERN, as well as pointing us toward a more materialized vision of working as a physicist. They also were way more exclusive to CERN, things not easily learned or seen anywhere else.

I especially loved the antimatter factory tour on the last day, as the tour guide for my group was so enthusiastic and so inspiring. She not only explained to us her favourite experiments- ELENA and AEGIS, but also encouraged us to pursue what we love, and shared her background story of becoming a scientist. I felt so inspired!

The social activities and the relay race were exceptionally memorable since it showed the life at CERN and the people working there firsthand.

Hands-on experiments like the workshops and all the different visits were very insightful in understanding what actually happens on a level deeper than theory. In this way we could get a better grasp of what it means to be a scientist and think as one.

I found all of these parts of the programme very well designed and were, most importantly, led by people who you could see they love their job and are passionate about what they are doing. In almost every one of those, it was the people who made it very interesting and unforgettable for me.

”

The cloud chamber was an incredible team experience, because you can discuss together what influences the particle tracks, connect it to the particles and so on :) + you feel like a child suddenly seeing something you have never seen before only using alcohol and a low temperature

Lessons learned & towards the future



→ An unexpected pairing between “do-it-yourself” experiments and large-scale, cutting-edge particle physics facilities makes the latter accessible and relatable.

→ By aligning the course content with the research institution's context rather than with its core scientific field, one can focus on topics drawn from advanced high school curricula.

→ Online courses face issues with attendance and completion: offering the prospect of the camp ensures a high completion rate.

→ In-person activities at large-scale research facilities struggle with demand: having the online course as a prerequisite funnels motivated candidates – and provides an alternative to highschoolers who cannot visit CERN in person.

Towards an extension of the programme: Solvay CEO visiting during third and so far final camp, 11 October.



[youtube.com/CERN](https://www.youtube.com/CERN)



www.solvay-education-programme.web.cern.ch



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Thanks for your attention!

Any questions?