Particle Physics for Kids Particle Physics Particle Physics for Teachers

Last time (May 2021) Virtual Science Camps

from My Favourite Experiments to Particle Physics for Kids and beyond

Virtual Science Camps at IPPOG

Who am I?

What is a Virtual Science Camp?

Why am I here?

What's next?

Who am I?

My Favourite Experiments

Science is universal, but how we teach it varies greatly around the world. Since 2017, I've travelled through 44 countries, largely by bicycle, to meet teachers and share ideas.











Africa 2023 - Morocco, Mauritania, Senegal

Approximately:

- 3 countries
- 4000 km
- 14 schools







Experiments - World Tour



"Science Show" created in June 2022

Compact way to share experiments



So far, I've performed in:

3 languages (English, French, Spanish)

4 continents (Europe, Asia, Africa, North America)

15 countries (France, Switzerland, Germany, Czech Republic, Slovakia, Kazakhstan, Slovenia, Serbia, Bulgaria, North Macedonia, Mexico, Spain, Morocco, Mauritania, Senegal)



Science on Stage and Scientix

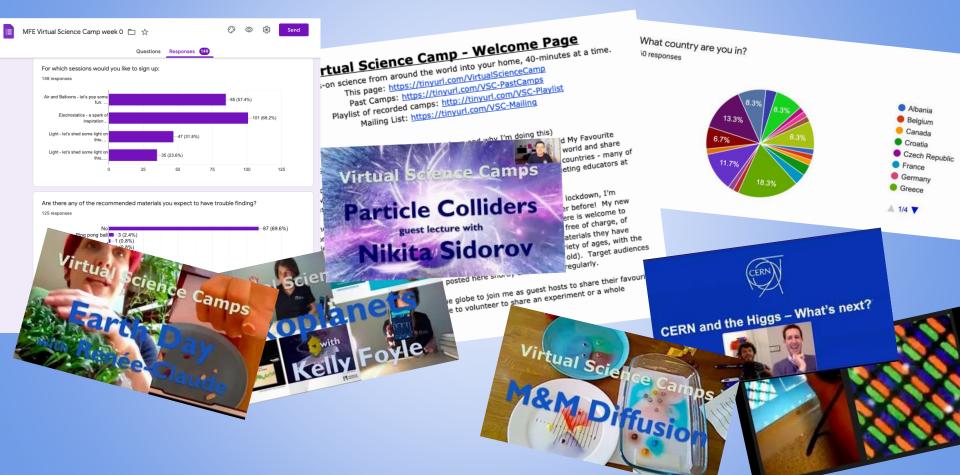






What is Particle Physics for Kids?

2020 - Virtual Science Camps and the Zoom Revolution



2021 - Particle Physics for Kids

Two sessions per week Jan-April
Tuesdays - Scientist lecture or visit (from CERN, JINR, Perimeter)
Saturdays - Hands-on Session with experiments at home
Included ATLAS Colouring Contest

Presented as success story at IPPOG

meeting May 2021

Hands-on Sessions Saturdays 18:00 - 18:45 (Paris time) recommended ages 10 to 14 With experiments to do at home using the list of recommended materials.		Guest Lecture Sessions Tuesdays 18:00 - 19:00 (Paris time) recommended ages 12 to 16 With guest hosts from around the world	
9/01	Launch of Particle Physics for Kids https://youtu.be/RxQ27Yn6asQ	12/01	It's Just a Phase Science Show hosted by Anja and Sarah, CERN's S'Cool Lab, Geneva, Switzerland
16/01	Phase Changes in the Kitchen https://youtu.be/WCZDIK2iKjA	19/01	Introduction to CERN Guest host Jeff Wiener, CERN, Geneva, Switzerland https://youtu.be/otvOVs9197E
23/01	Modelling Magnification	26/01	The Big Bang Theory. The Evolution of the Universe Guest host: Dmitry Dryablov, JINR, Dubna, Russia
30/01	Intro to Electromagnetics Recommended preparation for Superconductors Take Off!!!	2/02	Superconductors Take Off!!! Science Show hosted by Gernot Scheerer, CERN S'Cool Lab, Geneva, Switzerland
6/02	Measuring Sound A slight divergence from particle physics to share my current favourite experiment.	9/02	Neutrino Mysteries Guest host: Mark Shirchenko JINR, Dubna, Russia

schedule will be published early February

2022 - Particle Physics for Kids re-run

Repeated partly thanks to encouragement & contacts through IPPOG

More amazing guest hosts than ever before!

More than 50% of participants were teachers looking for new ideas...





Why am I here again? What is Particle Physics for Teachers?

Particle Physics for Teachers

Build on lessons learned from Particle Physics for Kids.

Focus on teachers and how to overcome barriers for bringing modern science into classrooms.

Open, free course, alternating sessions led by particle physicists and pedagogical sessions led by myself and guest teachers.

Large undertaking, I'll need help...

Teacher networks
Particle Physicists

Looking for Guest Hosts

Could be anyone working in Particle Physics (researcher, student, communications, outreach, etc.) willing to share their work.

Join for 1-hour Zoom session.

If interest, can help plan curricular connections and/or attend pedagogical session. (I assume most guest will not be interested in dedicating time to this, but the invitation is always open.

Join in the fun!

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