

#### **Update: Science Gateway Education**

Anastasia Tezari on behalf of the SG education team

#### Science shows: overview

5 different shows, 45 min, 200-400p

- Journey Through a Detector
- Proton Express
- Mysteries of Matter
- Seize the Data
- Science of Magical Parties

2 to 3 shows per day

**English, French and bilingual** 





# Science shows: objectives for 2024

Schedule more shows (approx. 200)

Find more guides

New developments (15-minute show for events, Outdoor show, Pop-up show)

Science show evaluation protocol

Recruit new Science Show coordinator/facilitator (successor for Anja KRANJC HORVAT)







## Science shows: achievements 2024

Schedule more shows (approx. 200) ✓ 350 shows between Jan-Sep 2024, 35k visitors

Find more guides

in progress, 140 guides trained, difficult summer

New developments (15-minute show for events, Outdoor show, Pop-up show) ✓

summer student project <a href="https://cds.cern.ch/record/2907767">https://cds.cern.ch/record/2907767</a>

Science show evaluation protocol in progress

Recruit new Science Show coordinator/facilitator

Laura de Vevey









## Lab workshops: overview

- 2 labs for 24p each
- 10 different workshops, 45 90 min
- age group 5-19 years + families and individual visitors
- English, French and many other languages
- 4-10 workshops per day
- >250 guides trained





# Lab workshops: objectives for 2024

Offer more workshops (> 20k participants)

Offer different workshops for individual visitors & families (Open Workshops)

Develop new workshops (Ultrasound, Vacuum, Photons)

More evaluation

Recruit new Science Educator (successor for Patrick THILL)







## Lab workshops: achievements 2024

Offer more workshops (> 20k participants)

22k visitors since Oct 2024, about 1000 groups

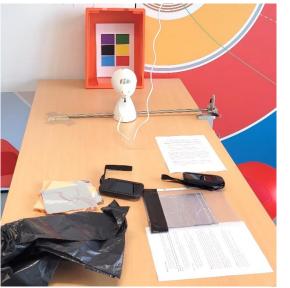
Offer different workshops for individual visitors & families (Open Workshops) 
Power of air & From CERN to our lives

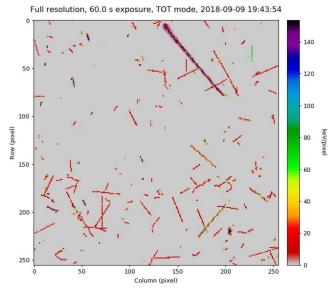
Develop new workshops (Ultrasound, Vacuum, Photons) in progress

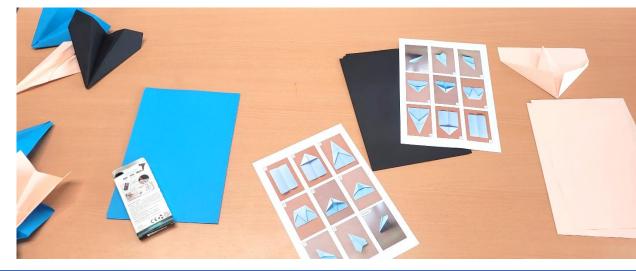
More evaluation in planning

Recruit new Science Educator Adelina Lintuluoto











#### **Ultrasound workshop**

Discover the "sound spectrum" and how sound waves propagate in different materials.

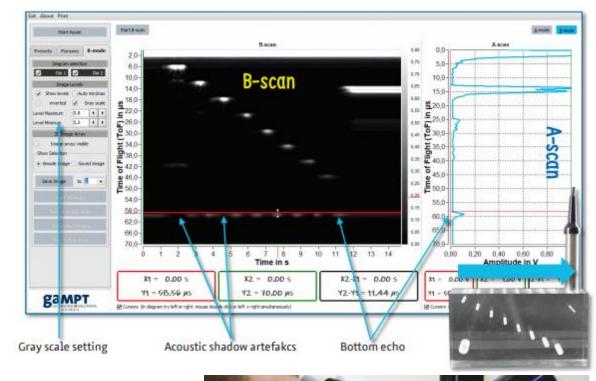
Understand image creation using ultrasounds.

Explore <u>medical applications</u> (imaging of 3-D phantoms)

Explore <u>wire bonding</u> (technique using ultrasound to connect microelectronics at CERN).

Target group: 13 – 15 years old

https://www.gampt.de/en/product/echoset/ https://www.gampt.de/en/product/med07ultrasonic-test-phantom/









#### "Cosmic SOS" workshop

The universe and space, as well as radioactivity and nuclear physics, are contexts and content areas in which students report the highest interest.

Interactive adventure game with a focus on astroparticles and radiation.

Participants use different types of particle detectors to solve various puzzles and explore their broader applications beyond the terrestrial laboratories.

**Predict – Observe – Explain** 

Target group: 13 – 15 years old

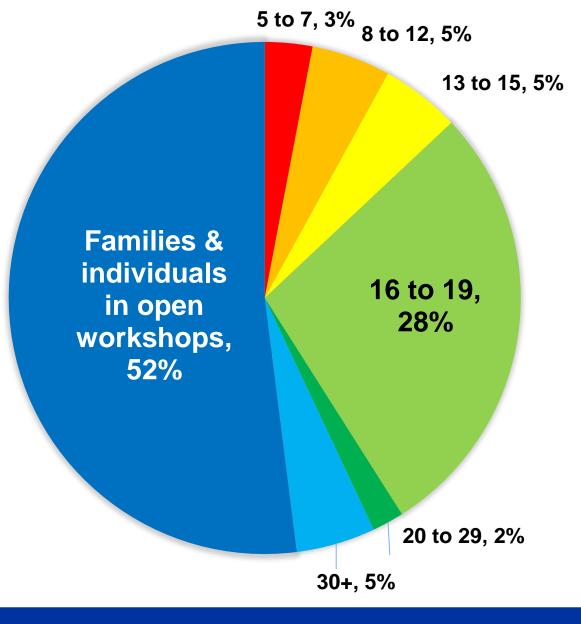




### Lab workshops: achievements 2024

- Participant numbers exceed our expectations (22k in 11 months)
- Surprisingly high interest by families and individual visitors (52% of our audience)
- Very busy during school holidays and summer
- Overall good subscription levels for guides

#### PARTICIPANTS AND THEIR AGE





#### Thanks for your attention!

Let's discuss

