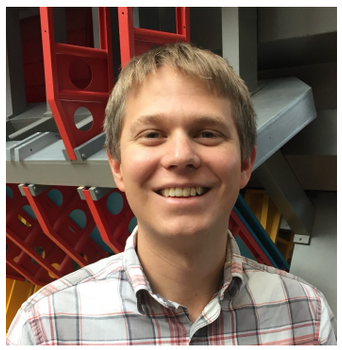
ATLAS Virtual Visits
Take part from anywhere in the world

On behalf of the ATLAS Collaboration

ICHEP

July 28, 2020

https://indi.to/grSyQ



Ben Carlson

https://www.physicsandastronomy.pitt.edu/people/ben-carlson

Outline

Ben Carlson

1. Introduction

- ATLAS experiment
- ATLAS Collaboration

2. Virtual visits

- What is a virtual visit
- Statistics of past participants
- How to book a visit

The LHC

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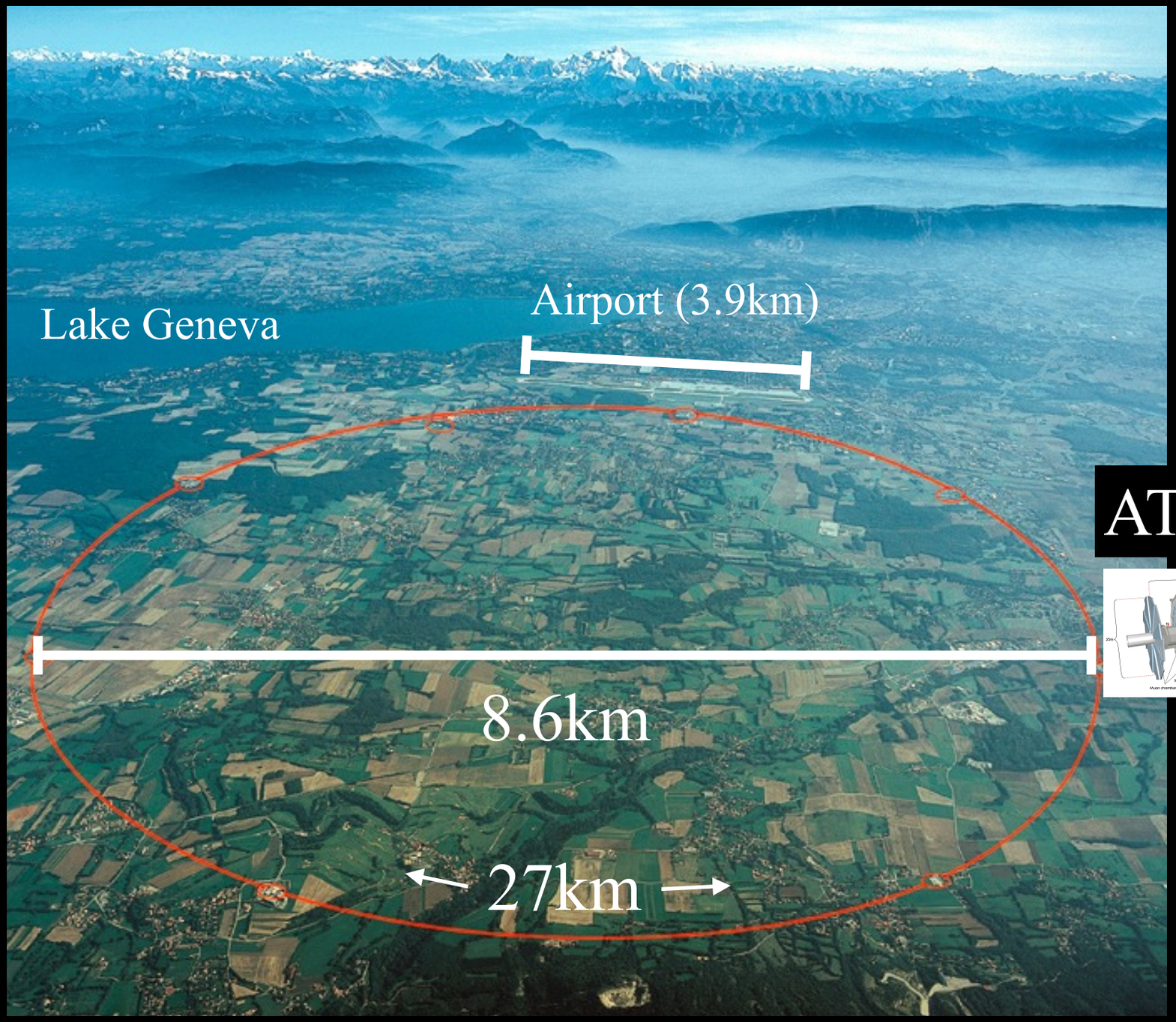
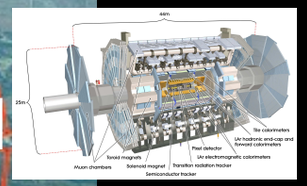
Highest energy particle accelerator in the world
Collides protons with a center of mass energy of 13 TeV



ATLAS



ATLAS experiment

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ATLAS detector

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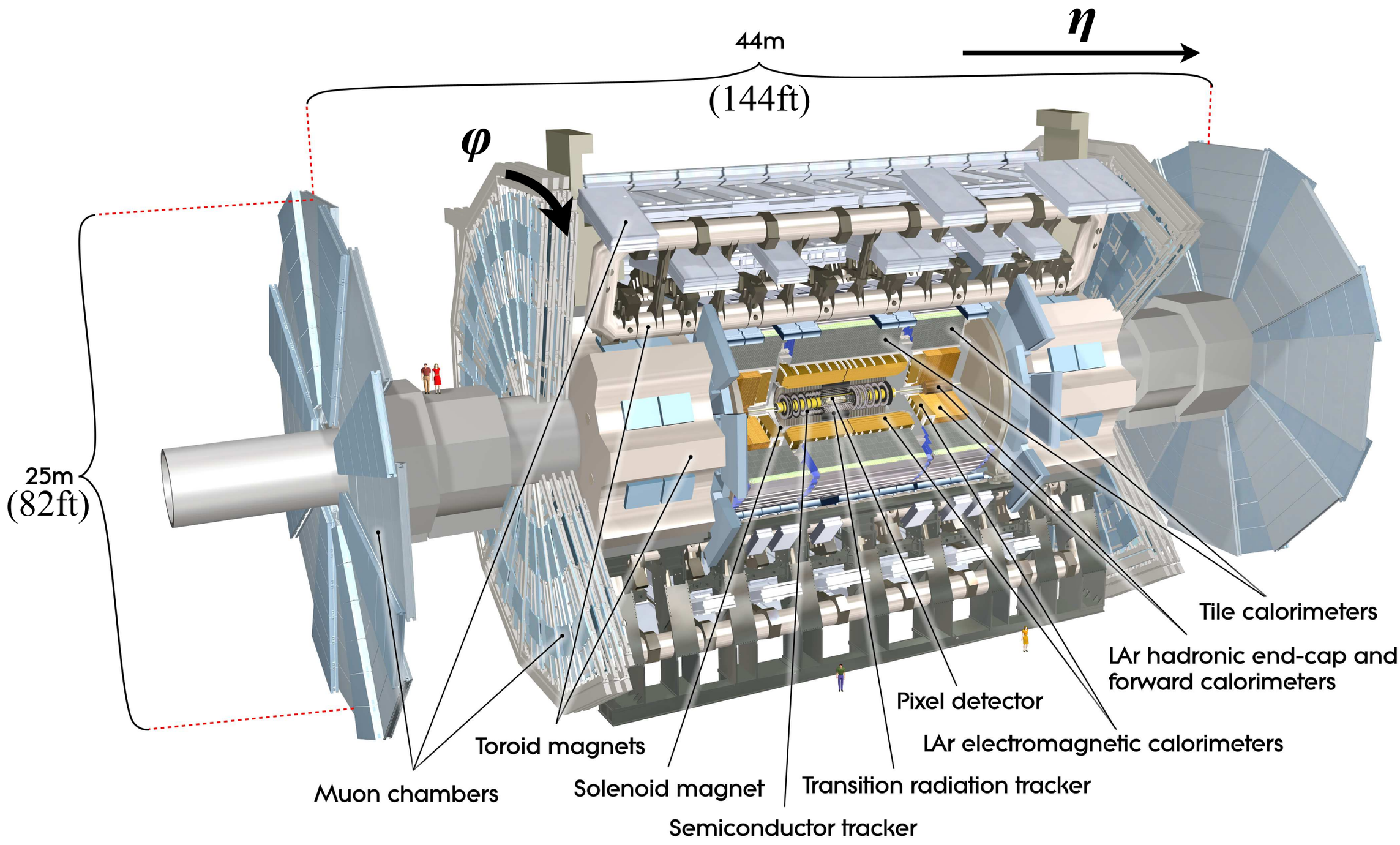
2T solenoid, 4T toroid
100M electronic channels for data readout



ATLAS collaboration

Ben Carlson

3000 authors from 183 institutes located in 38 countries

ATLAS member countries in blue
Institutes per (approximate region) highlighted as orange dots. Zoom in to see location by following the link

http://atlas.cern/discover/collaboration

Globally connected… a chance to bring people from around the world to virtually see science in action @ CERN

What is a virtual visit?

ATL-OREACH-SLIDE-2020-137
ATLAS cavern image (link)

Ben Carlson

How the visit happens

- Audience connects to the ATLAS control room via video conference software

Introduction

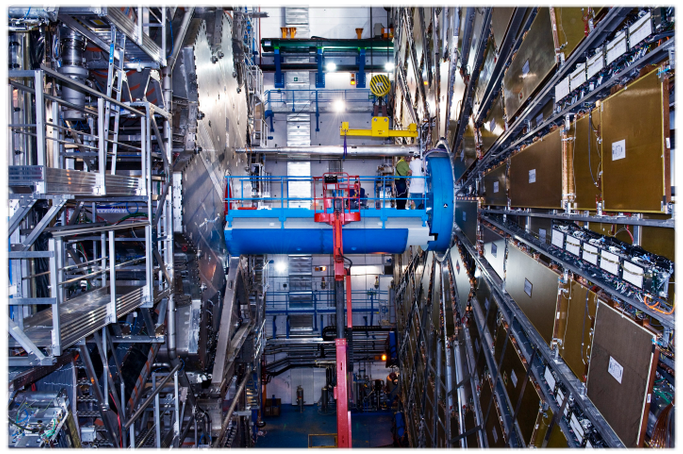
- Introduction to the guides
- Physics goals for the ATLAS experiment and (often) personal interests of the host

Question and answer

- Detailed question and answer period with audience

Virtual visit to ATLAS cavern

- When possible… the host goes to the ATLAS cavern



Credit: CERN

ATLAS control room

Muhammad Alhroob

Virtual audience

Scenes from visits

From promotional video (link)

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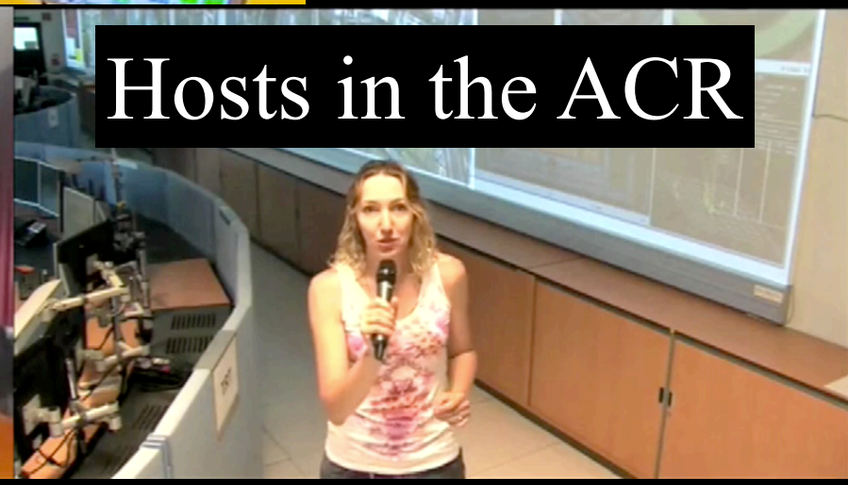


Who visits

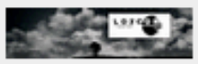
Ben Carlson

Tens of thousands of viewers
Visits from 6 populated continents
More than 75 visits in 2019

Variety of audiences and venues

Ben Carlson

Audiences include festivals, teachers, and students

Date & CERN time	Link to Visit Page	City	Visit Status	Visit Title	Virtual Guide	Audience Type
04/27/2018 - 17:15		Taos Pueblo	Finished	Taos Pueblo Day School	Steven Goldfarb	Primary <12
02/14/2018 - 21:00		Toronto	Finished	École secondaire Toronto Ouest	Claire Adam & Michael Hoch	Teachers
11/25/2017 - 09:00		Los Angeles	Finished	Loscon 44: Science Fiction & Fantasy Convention	Katarina Anthony, Chris Martin	Public
05/19/2017 - 11:30		Moogfest, Durham NC	Recorded	Moogfest – The Armory	Julia Gonski, Chris Martin	Public
07/30/2016 - 15:00		Womad, Malmesbury	Recorded	WOMAD festival	Steve Goldfarb	Public
12/02/2015 - 15:00		Taos, New Mexico	Finished	Taos High School & Academy	Steve Goldfarb	Secondary Students
11/14/2015 - 08:00		Singapore	Finished	ArtScience Museum, Singapore	Emmanuel Tsesmelis	Public
06/05/2014 - 18:00		Albuquerque	Recorded	National Hispanic Cultural Center	Laura Jeanty	Secondary Students

Many of the talks are recorded…

http://atlasvirtualvisit.web.cern.ch/content/artscience-festivals

Distribution by country

ATL-OREACH-SLIDE-2020-137

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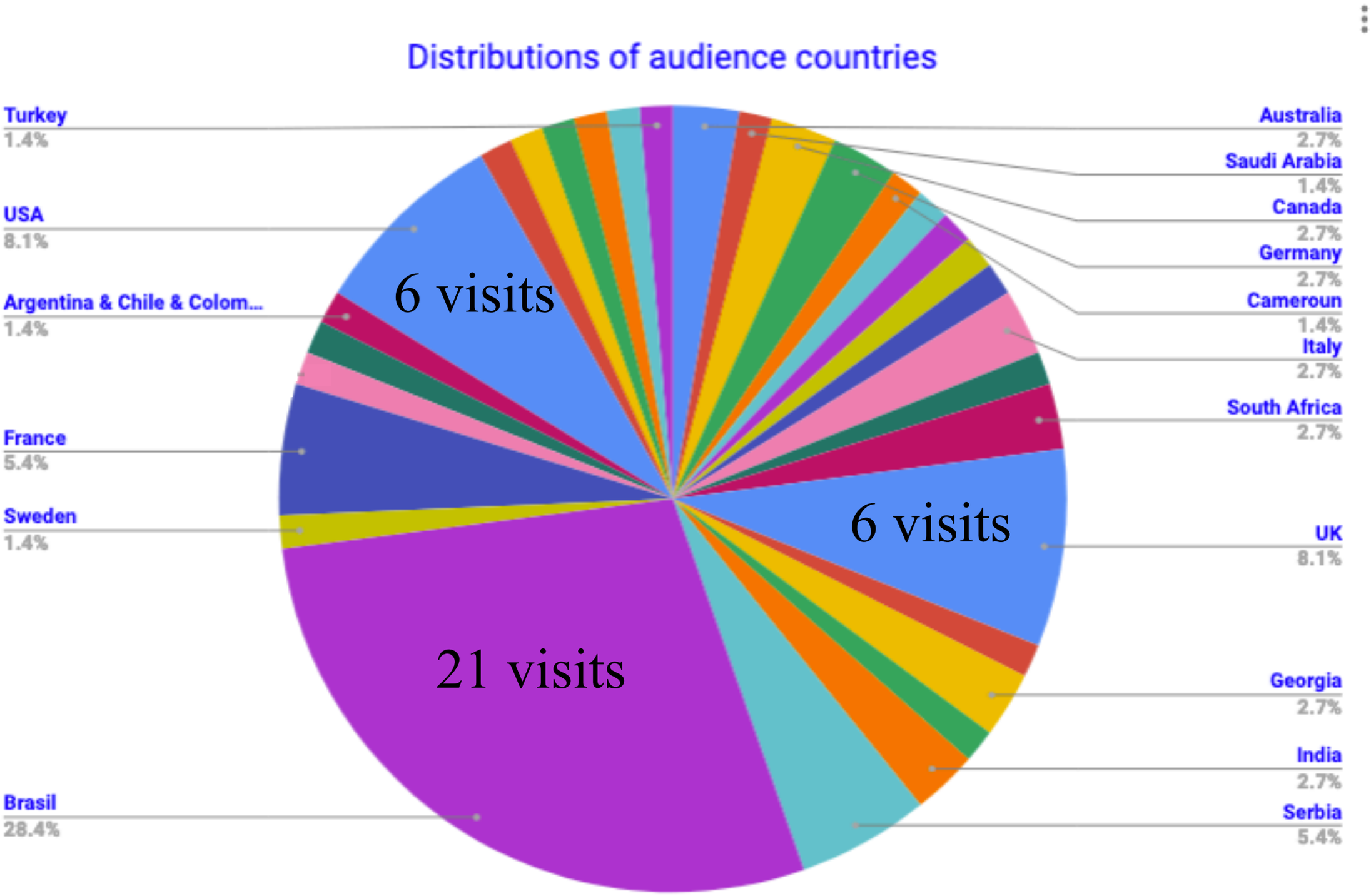

Distribution by language

ATL-OREACH-SLIDE-2020-137

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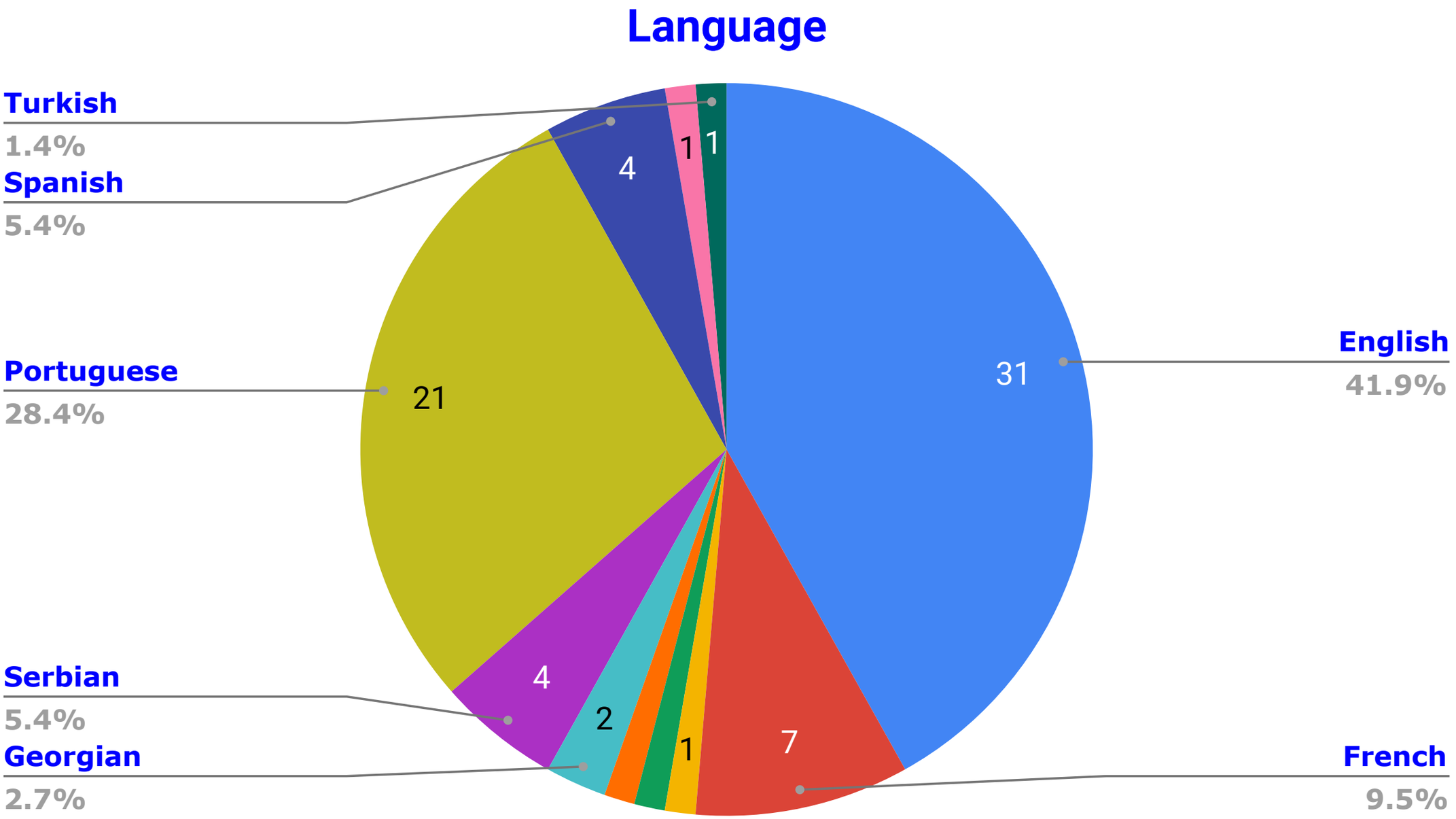

Check out an example

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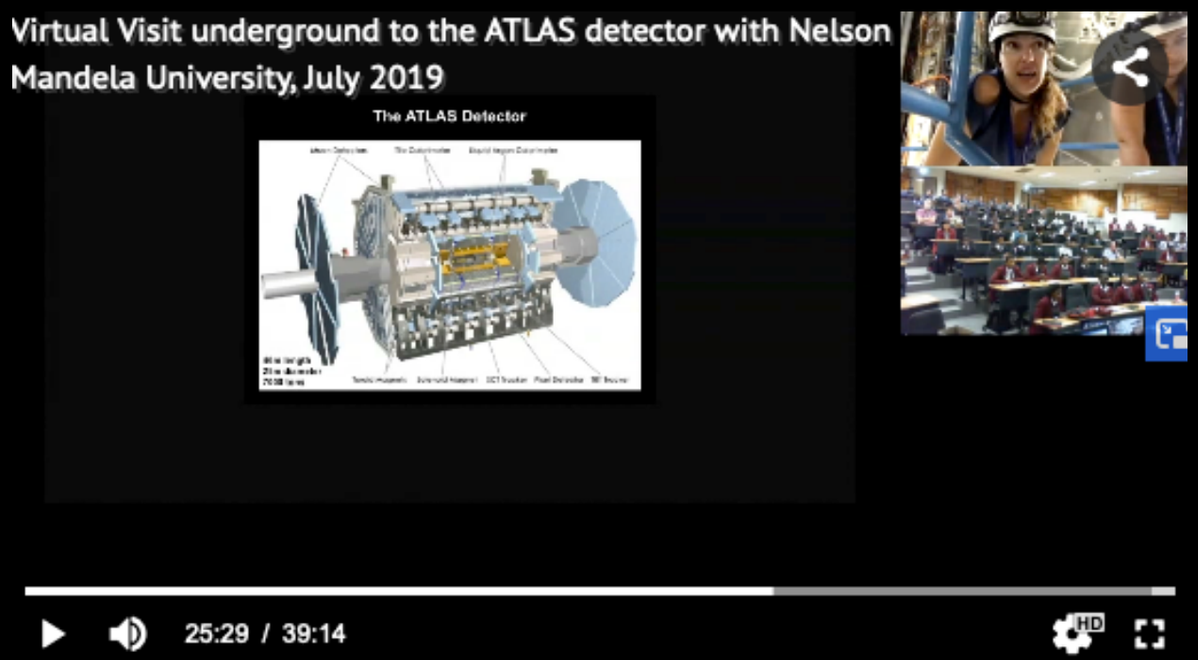
Have an audience that might be interested?

- Checkout a sample visit (including a trip to the cavern, link)
- Other pre-recorded visits (link)
- Checkout the promotional video



https://atlasvirtualvisit.web.cern.ch/

Book a visit

Ben Carlson

Technical requirements

- Computing for video conferencing with 1Mbs internet connection
- Or a video conferencing setup (e.g., Polycom)

Fill out the paper work

- Fill it out with sufficient notice: prefer 4 weeks

Prepare for the virtual visit

- Test the video connection before the visit
- Feel free to utilize existing outreach materials

Register your visit here:

https://atlasvirtualvisit.web.cern.ch/content/prepare-your-visit

COVID19 note: visits with hosts connecting from home occurring now, and slowly introducing cavern visits as possible

Big bang stage

Ben Carlson

August 5, 2020 @ 14h

https://bigbangstage.web.cern.ch/

14:00 - LIVE LINK

Live underground visit to the ATLAS experiment at CERN, Switzerland

Speakers: Clara Nellist: Radboud University, The Netherlands and Muhammad Alhroob: Oklahoma University, USA

Go 100m underground and join ATLAS physicists Clara Nellist and Muhammad Alhroob on a live tour of the ATLAS experiment at CERN, see up close a marvel of science and engineering and have the chance to ask them your questions on site LIVE.

Extras

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Language & country

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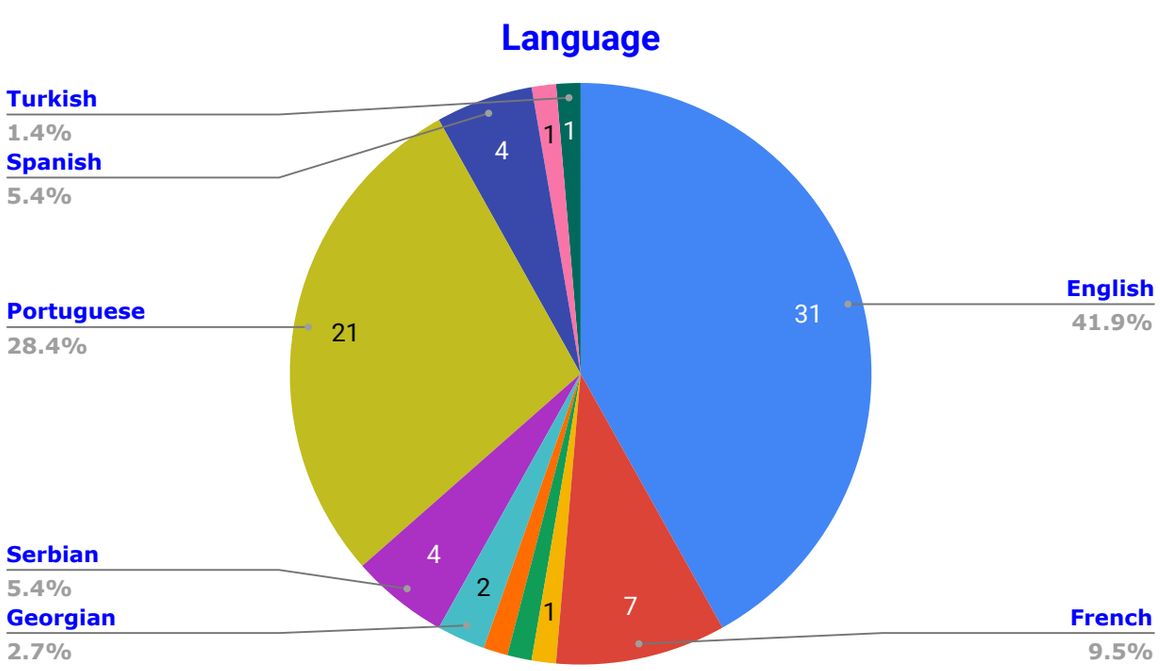

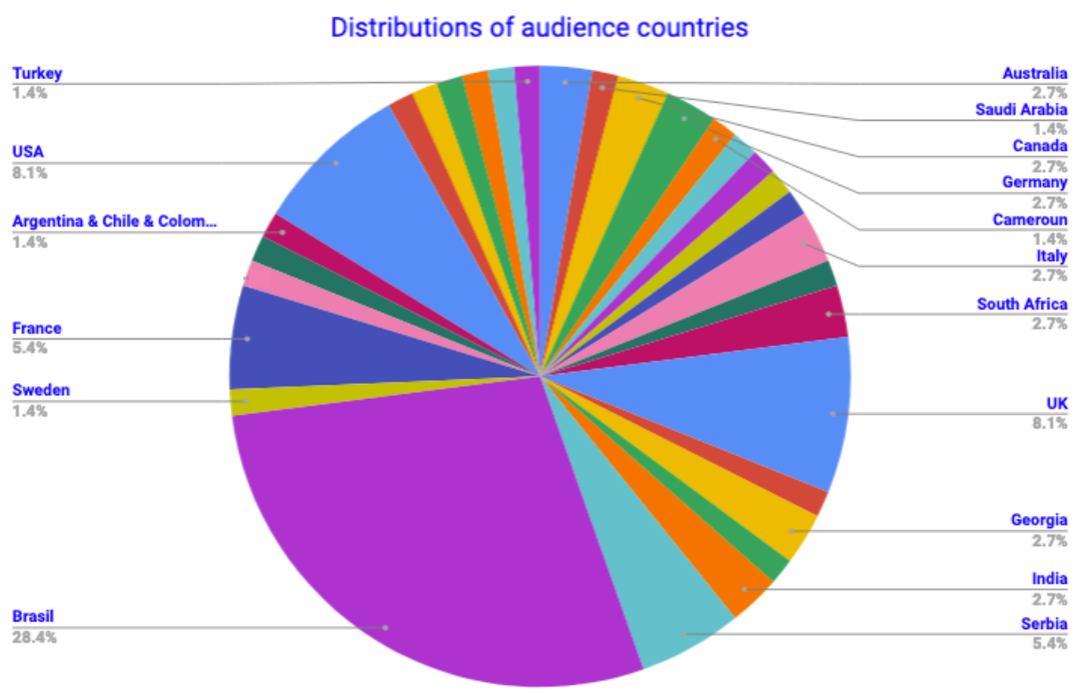

ATLAS virtual walk through

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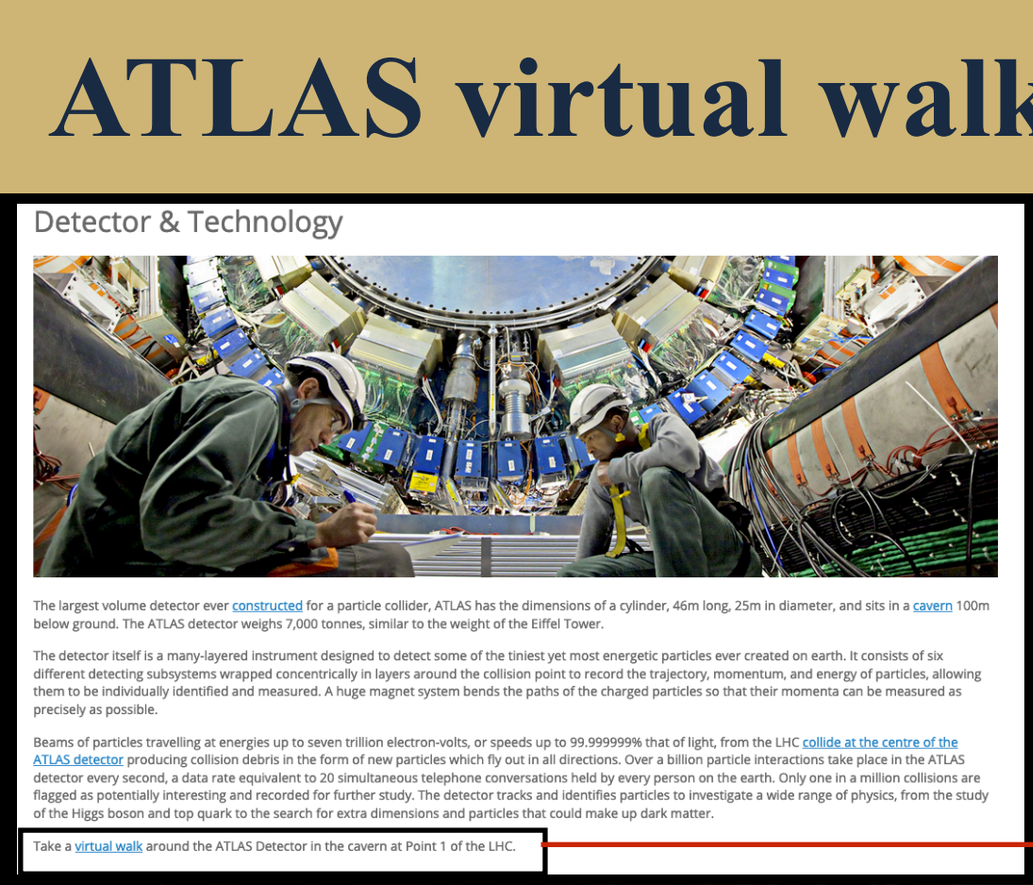

http://atlas.cern/discover/detector

Click the link

ATLAS on google maps!

360° tour of ATLAS

Ben Carlson

https://youtu.be/On1WbLKP8DA

Types of events

Ben Carlson

Large diversity of events: festivals, teachers, schools…

Visits shared with partners & special events

	Teachers Programs	IPPOG, Quarknet, CERN and HEP teachers programs
	Le CERN et ses voisins	Une collision (presque) grandeur nature !
	Shared Visits	With friends from other experiments
	ArtScience & Festivals	Reaching people where they do not expect us

http://atlasvirtualvisit.web.cern.ch/atlas-partnerships-projects