



Co-creation of CERN OpenData projects with UK school students

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School students can do impressive research



UK school students presented their research based on the HiggsHunter dataset at CERN in October 2019 [photo IRIS]

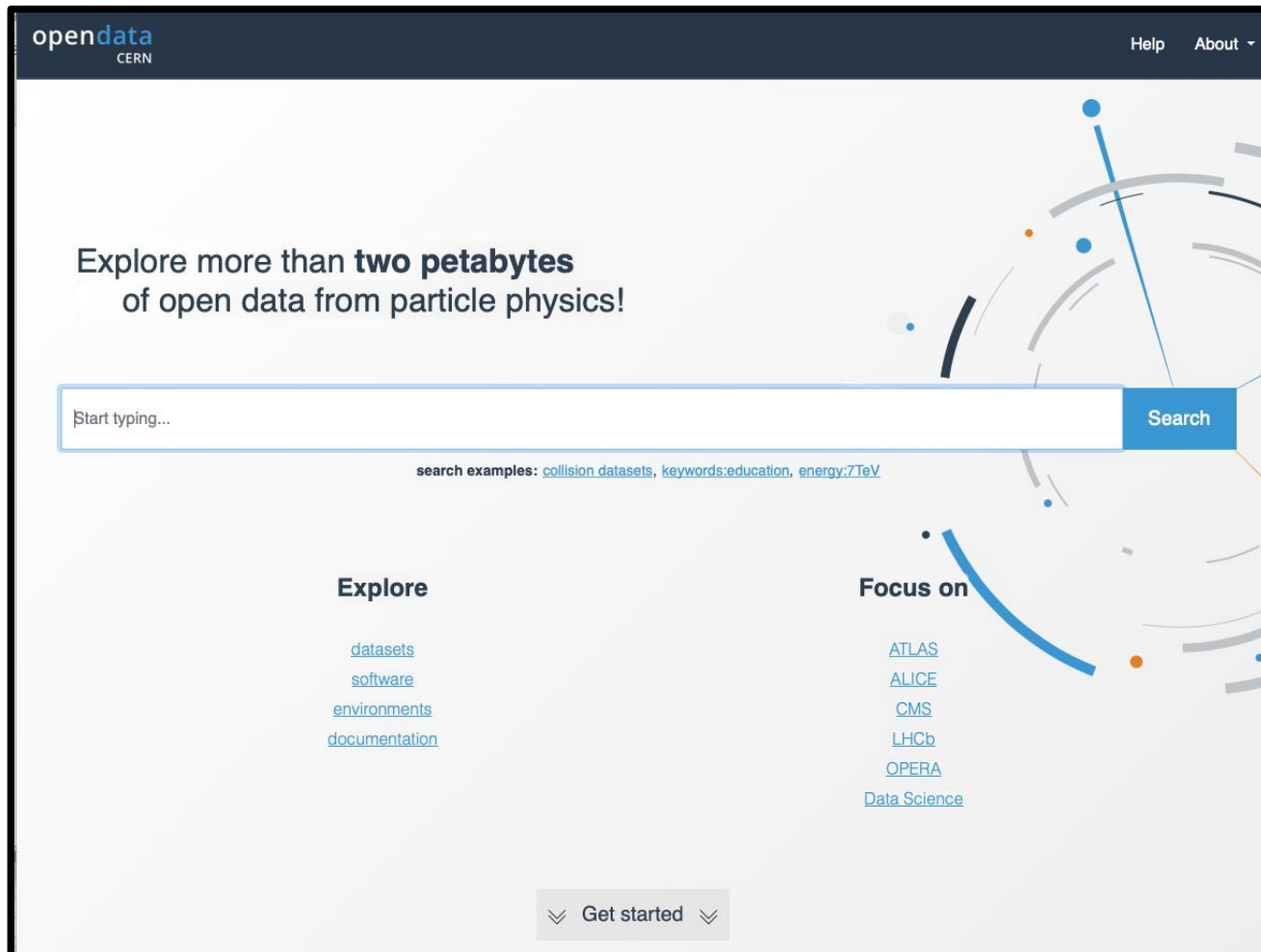
Schools working on HiggsHunters produced some impressive results

Topics included:

- machine learning
- pattern recognition & edge detections
- use of SQL databases
- biases and human errors

[Proceedings](#): ATL-OREACH-PROC-2019-002

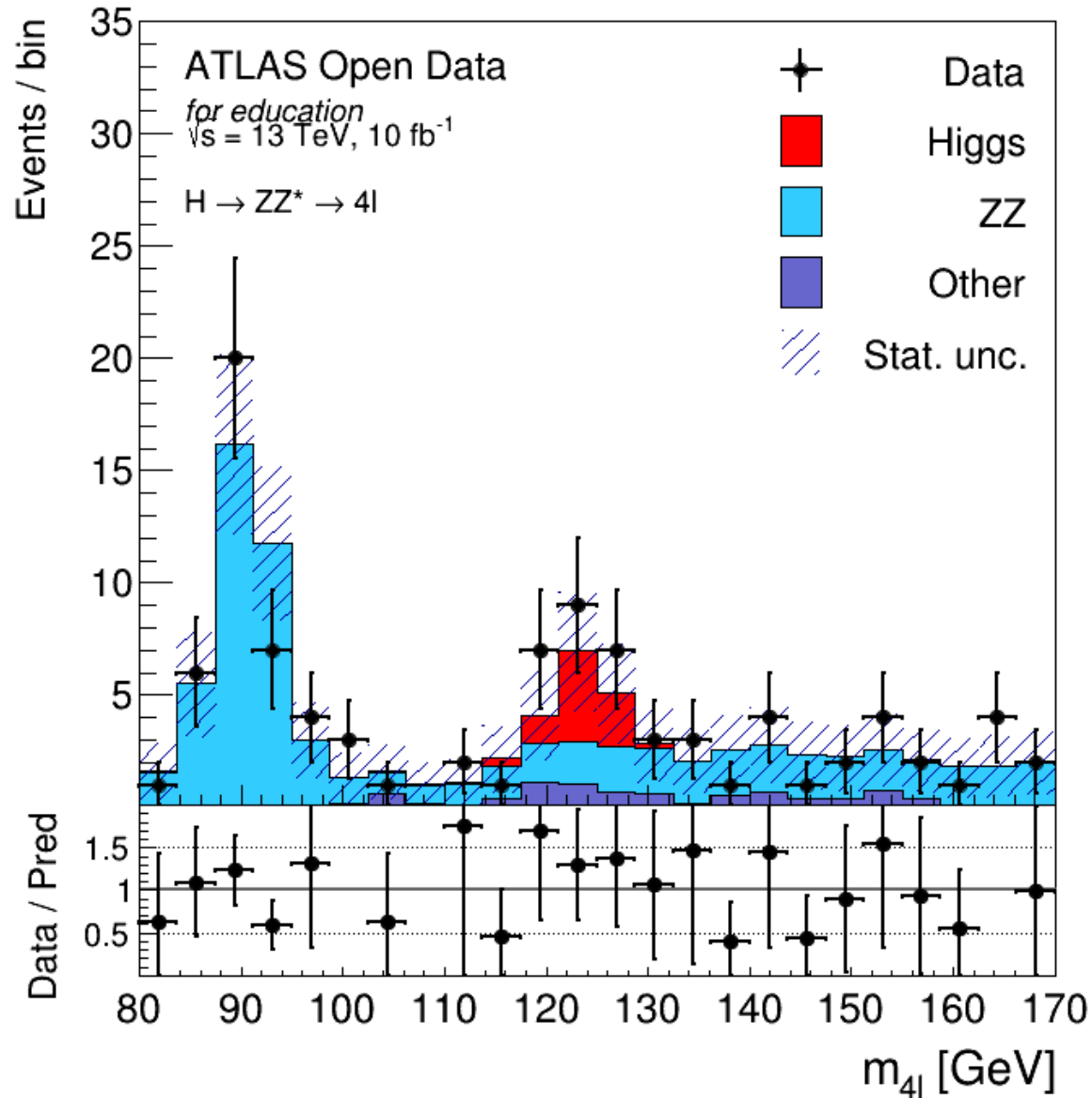
CERN has provided a wealth of data for education



Much investment & effort
not least by people present today

Real research data

Incredible resource



Examples:
Make your own
Higgs boson
discovery at home

What might students want to do?

→ Co-creation of research?

Objectives

- Share experience & best practice with existing use CERN OpenData within the target age range
- Identify any barriers to wide(r) participation
- Discuss conditions needed for larger programme
 - Evaluation of pilots
 - Partnerships
 - Funding & resources
 - Timing

Timetable

< **Wed 17/03** ~~Thu 18/03~~ ~~Fri 19/03~~ ~~All days~~ >

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09:00	Welcome & objectives Zoom only	Alan Barr et al.	09:15 - 09:30
	The ATLAS vision for Open Data Zoom only	Sascha Mehlhase	09:30 - 09:50
10:00	Introduction to IRIS: large-scale schools' research projects Zoom only	Jo Foster	09:50 - 10:10
	Schools OpenData pilot at Sussex Zoom only	Meirin Oan Evans	10:10 - 10:30
	Schools OpenData pilot at QMUL Zoom only	Natasha Hehir	10:30 - 10:50
11:00	International experience Zoom only	Arturo Sanchez Pineda	10:50 - 11:10
	Break Zoom only		11:10 - 11:20
	Discussion: Nurturing & mentoring co-created research online Zoom only		11:20 - 11:40
	Discussion: Barriers to wider participation Zoom only		11:40 - 12:00
12:00	Outline future plans Zoom only		12:00 - 12:30

Running events & pilots

Discussion, suggestions & next steps