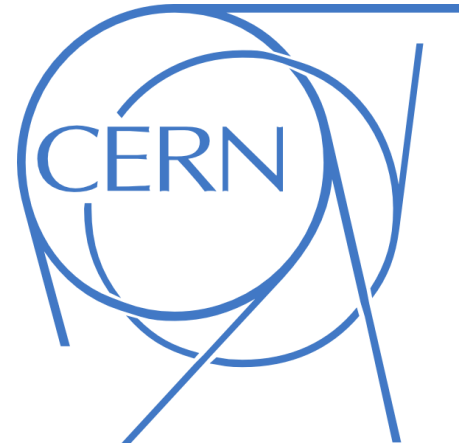




UNIVERSITY OF
LIVERPOOL



Quiz Answers

University of Liverpool Particle Physics Summer School

16th of August 2021

Abbie Chadwick

Answers

1. Which LHC experiment is the heaviest?

ATLAS, CMS, ALICE or LHCb It's 14,000 tonnes! That's almost two Eiffel Towers

2. Out of the four main LHC experiments, which is the 'odd on out' detector that has a different geometry? (ie isn't hermetic)

ATLAS, CMS, ALICE or LHCb

3. In what year was the Higgs boson discovery announced by ATLAS and CMS?

4. What does FCC stand for? It's the successor of the LHC!

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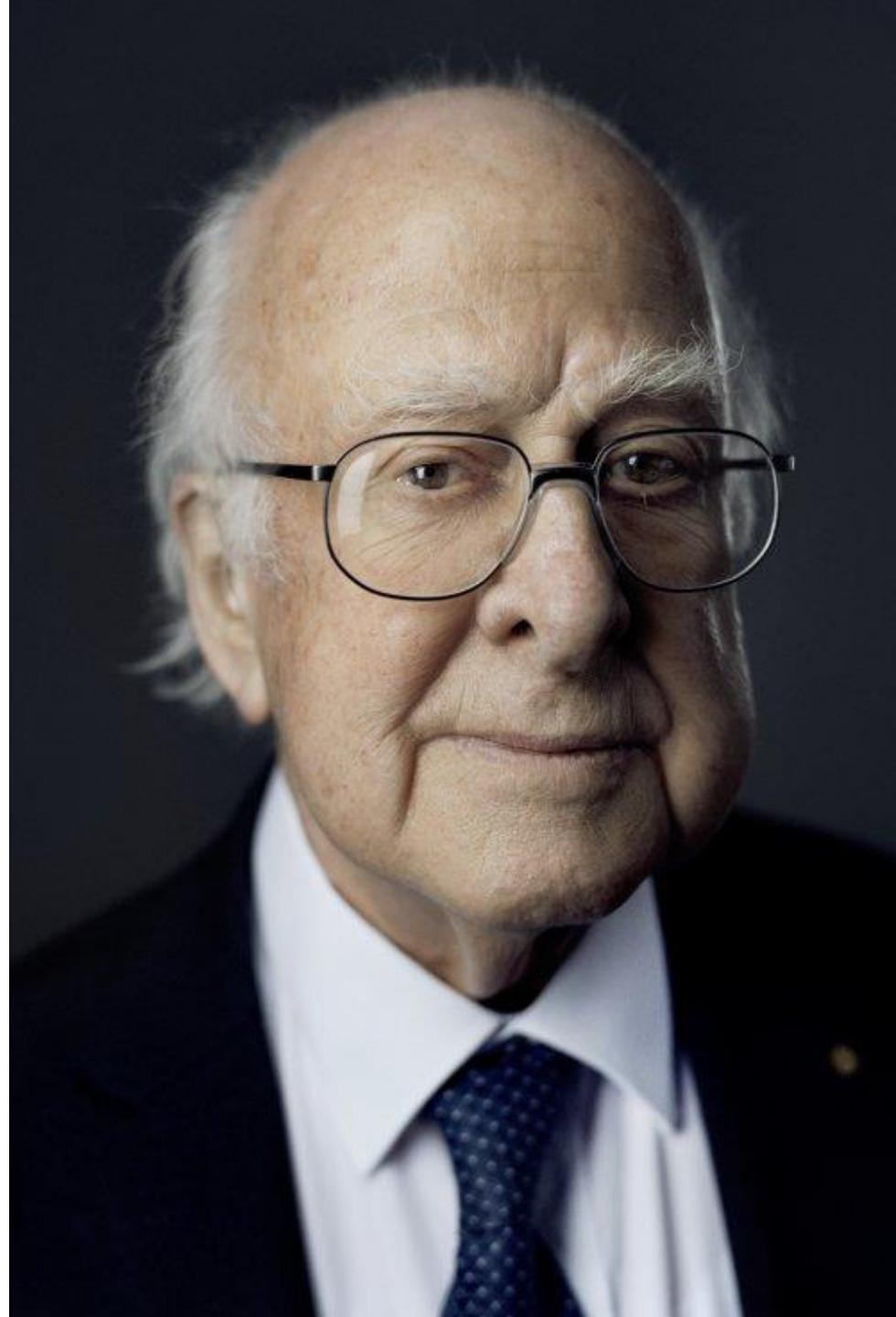
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Future Circular Collider

Answers

5. Who is this person?

This is Peter Higgs!



Answers

6. In what country is CERN located?

Switzerland/France (I've allowed just Switzerland)

7. Where in the world is Fermilab located?

8. Daresbury laboratory houses what type of accelerator which was in use until the 90s?

9. What unit is used to measure the total amount of data stored by CERN from all its experiments so far?

Megabyte GB

Terabyte TB (1000 GB)

Petabyte PB (1000 TB)

Zettabyte ZB (1,000,000 PB)

10. Estimate the number of people (including scientists, engineers and admin staff) work at CERN. Within 10% gets a point!

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It's actually 17,663, that's a lot of people.

Our winner is...

Our winner is...

Well, it's a tie!

Our winner is...

Well, it's a tie!

Three people got 9/10 so we need to get a winner from:

Our winner is...

Well, it's a tie!

Three people got 9/10 so we need to get a winner from:

Siddharta Laloux

Bhavan Aulakh

Sam Tee