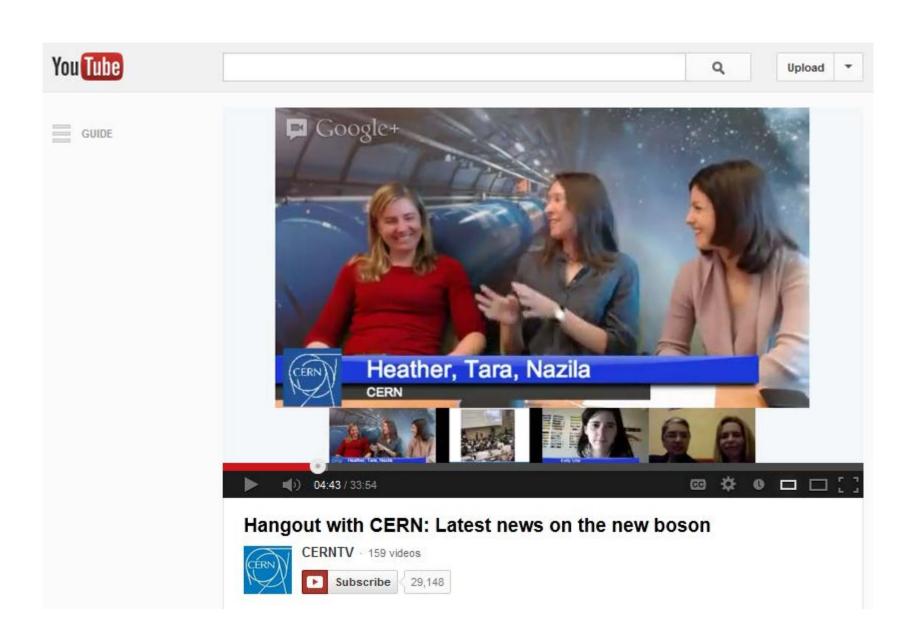


#askCERN

Hangout with CERN: About last week...

14 March 2013











Today's trivia question

This woman is one of the key physicists responsible for development of the Tevatron at Fermilab. Parts of HERA and the LHC are both based on technology she developed.

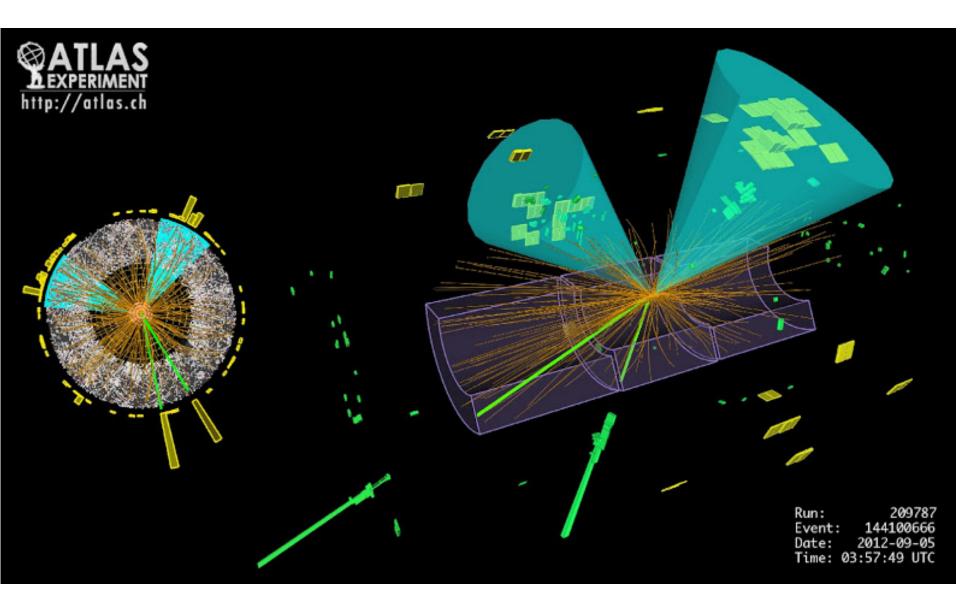
She has won the **USPAS Prize** for Achievement in Particle Physics and Technology, a **MacArthur Foundation Fellowship**, the **National Medal of Technology** and is an accomplished author.

Can you name her?

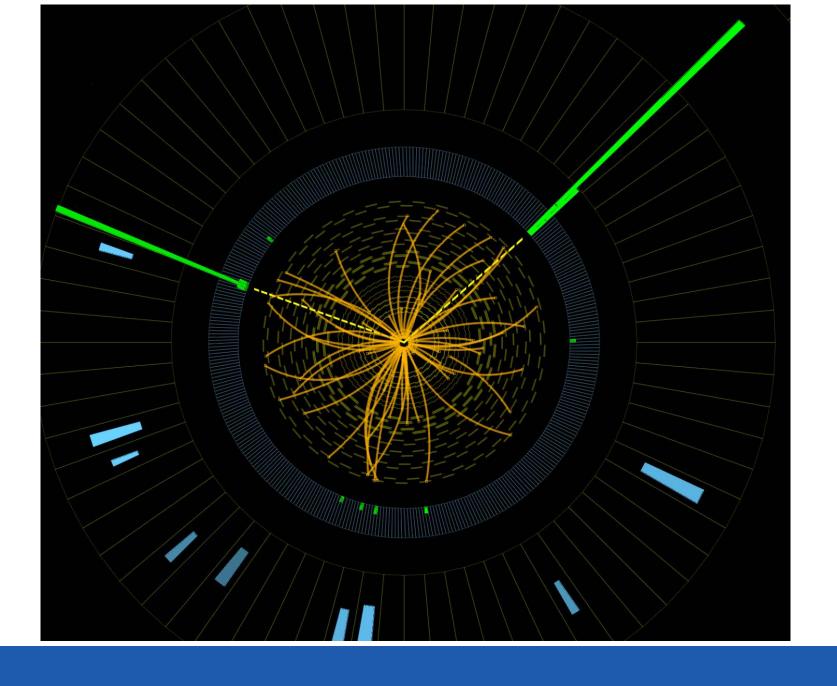




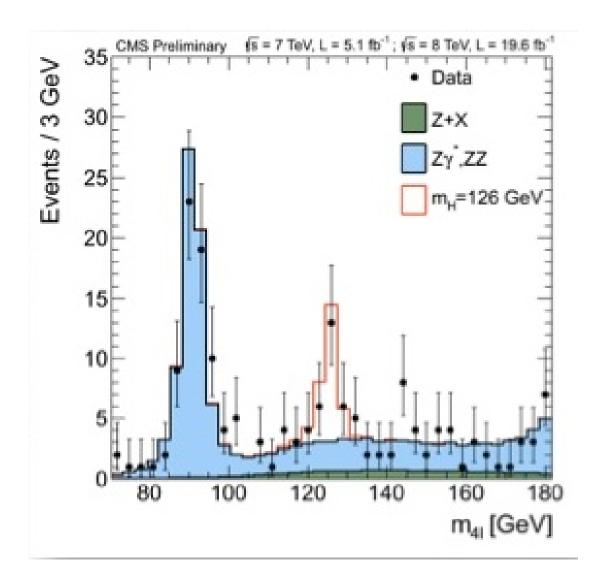








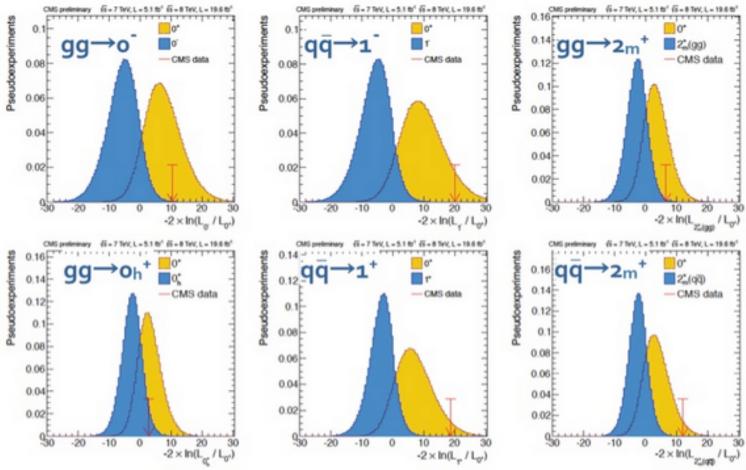




Boson -> 4 leptons

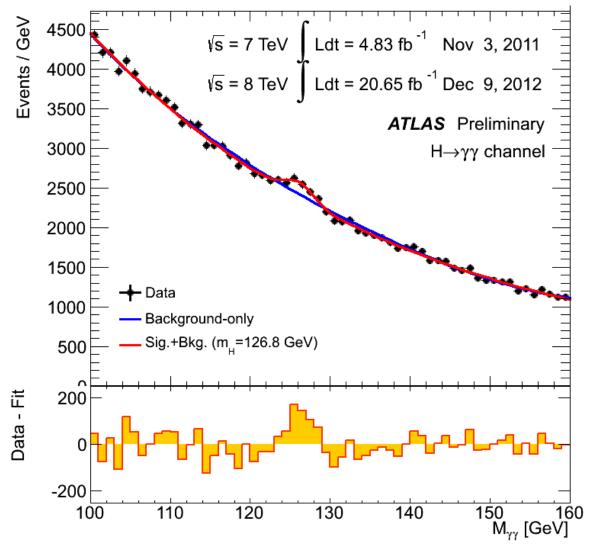
Data (black dots) match simulation of a Higgs boson (red line)





CMS checks to see if the new particle is more likely to have a spin-parity of 0+ (in yellow) as expected for a Higgs boson than other hypotheses (all shown in blue). The red arrow shows the value obtained for the new boson. The compatibility with each hypothesis is measured by the amount of the curve lying to the right of the arrow. There is always more yellow remaining than blue, meaning in all cases, the new boson is more likely to have spin 0+ than any other values.



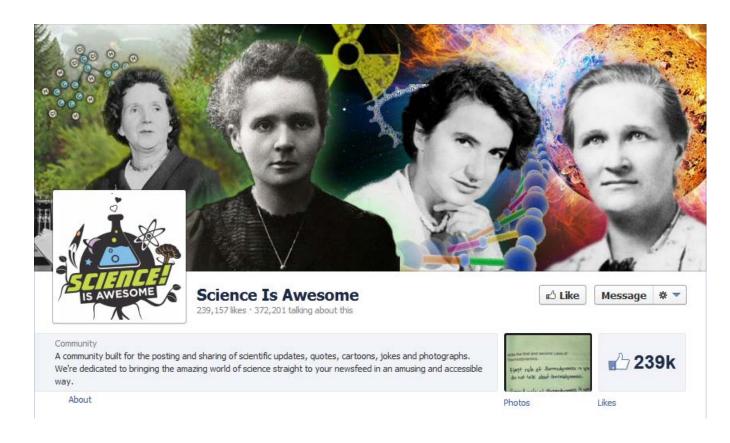


Check out the animations:

https://twiki.cern.ch/twiki/bin/view/AtlasPublic/HiggsPublic Results#Animations



Facebook: Science Is Awesome



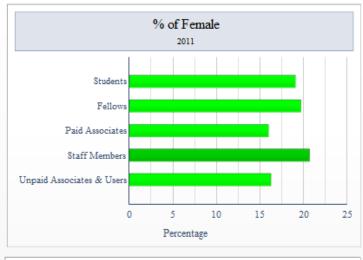
Rachel Carson, Marie Curie, Rosalind Franklin and Cecilia Payne

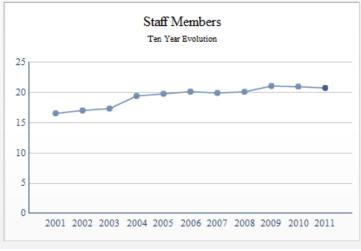
Image created by Raven Garfield

http://www.facebook.com/ScienceIsSeriouslyAwesome



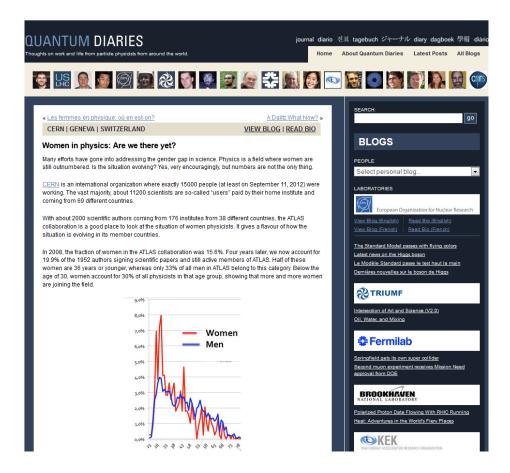
Women in science: CERN







Women in science: ATLAS



http://www.quantumdiaries.org/2012/10/31/women-in-physics-are-we-there-yet/



Today's trivia answer

Helen Thom Edwards



Image credit: Fermilab





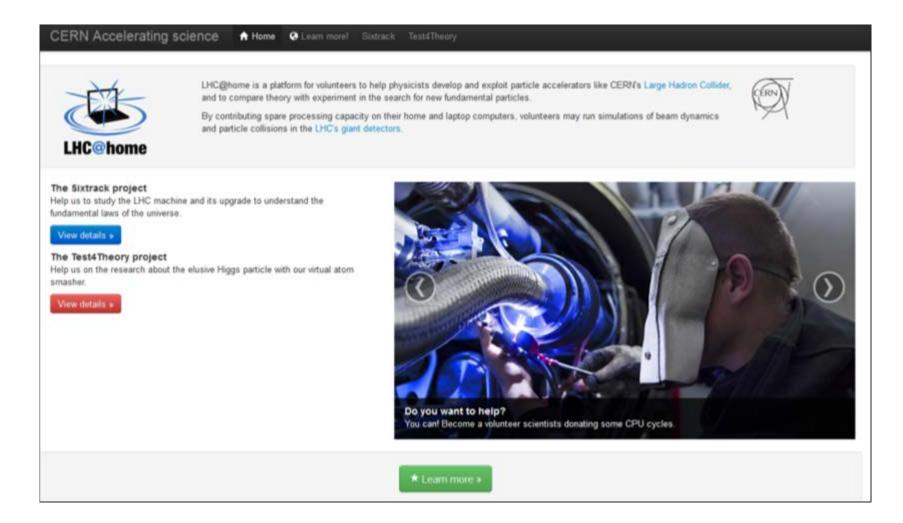
International competition to find the new faces of science communication http://www.famelab.ch/

CERN hosting Swiss semi-finals Saturday 16 March, 3.30pm (CET) Live webcast via http://webcast.cern.ch

Watch and vote for your favourite

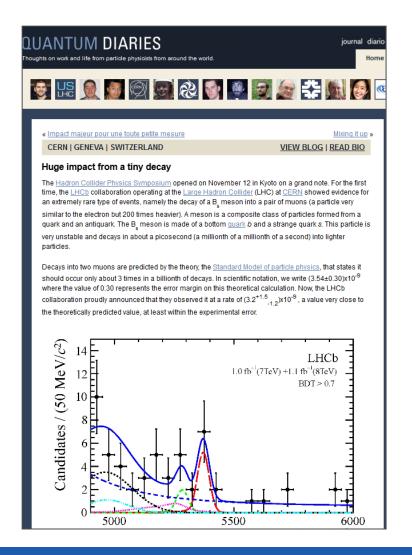


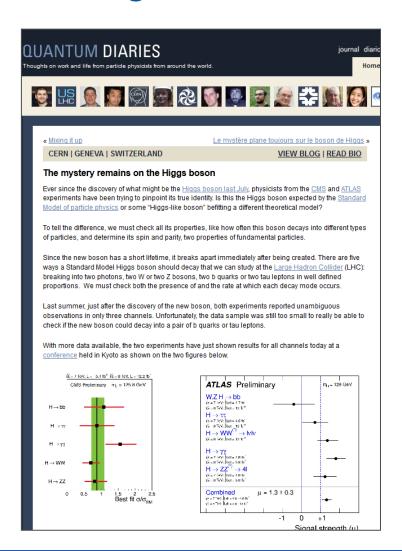
cern.ch/LHCathome





http://www.quantumdiaries.org/author/cern/







cern.ch/hangouts

- Live streams
- Archives
- Schedule
- Resources
- Today's the last hangout of series 2
- Series 3 starts Thursday 18 April, 17h00 CET



Participants

Tara Shears, LHCb physicist, University of Liverpool

André David Tinoco Mendes, CMS physicist, CERN

Pauline Gagnon, ATLAS physicist and CERN blogger

Elise Andrew, creator of IFLS / Science is Awesome on Facebook



Credits

Steven Goldfarb — Host

Ken Read — Q&A from Social Media

Kate Kahle and Achintya Rao — Production

Thank you for watching!



