

#askCERN

Hangout with CERN and TED-Ed: Dimensions Multiplied

16 May 2013





LHCb

ATLAS

CERN Meyrin

CERN Prévessin

SPS 7 km

ALICE

CMS

LHC 27 km

SUISSE

FRANCE

Today's trivia question

An international team at the ISOLDE facility at CERN just announced that some atomic nuclei can assume a new shape.

What is this new shape?

The beginning of the universe, for beginners

Lesson by Tom Whyntie, animation by Hornet Inc.

<http://ed.ted.com/lessons/the-beginning-of-the-universe-for-beginners-tom-whyntie>



Exploration on the Big Data frontier

Lesson by Tim Smith, animation director: Biljana Labovic

<http://ed.ted.com/lessons/exploration-on-the-big-data-frontier-tim-smith>



Dark matter: The matter we can't see

Lesson by James Gillies, animation director: Jeremiah Dickey

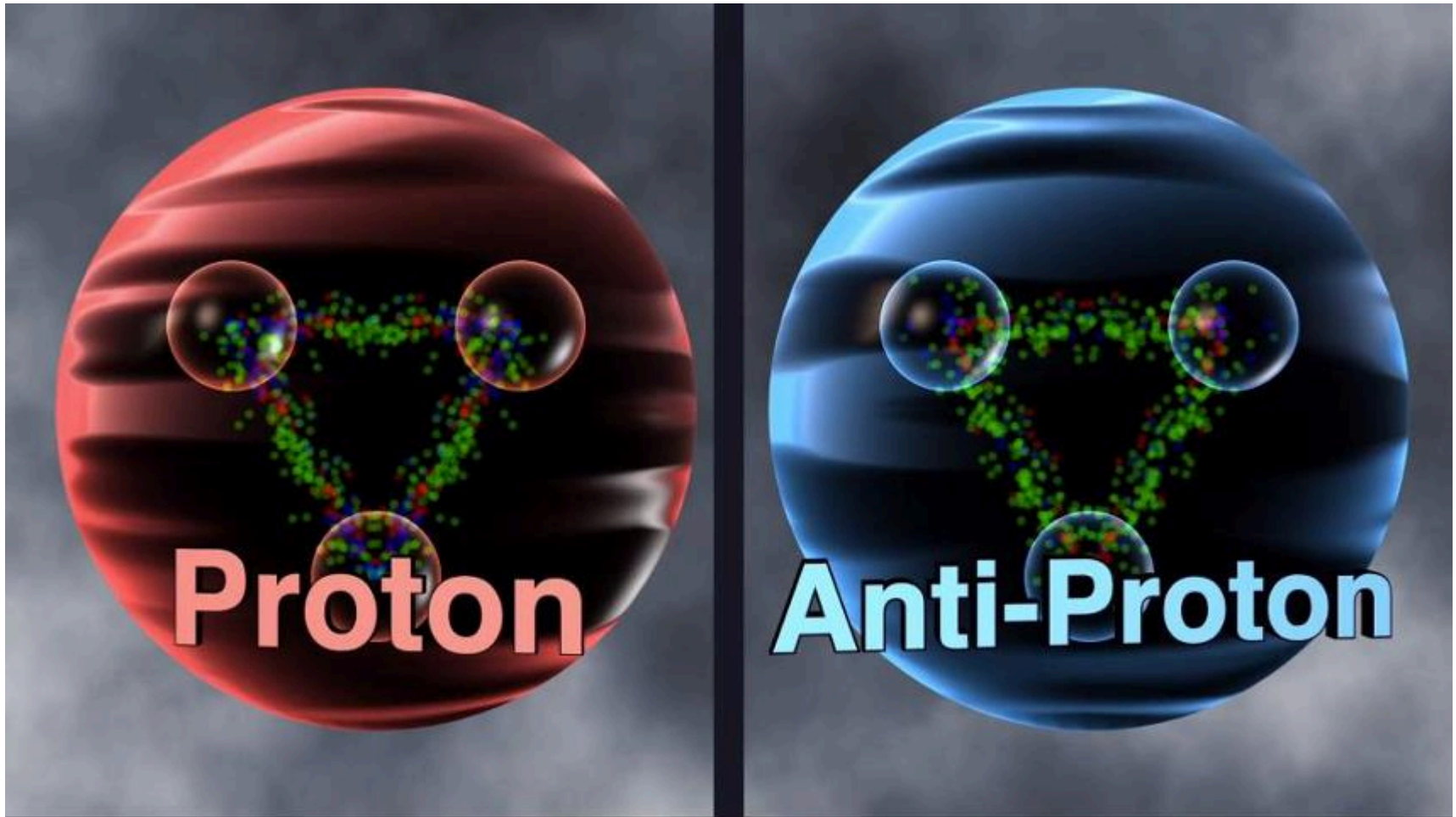
<http://ed.ted.com/lessons/dark-matter-the-matter-we-can-t-see-james-gillies>



What happened to antimatter?

Lesson by Rolf Landua, animation director: Franz Palomares

<http://ed.ted.com/lessons/what-happened-to-antimatter-rolf-landua>

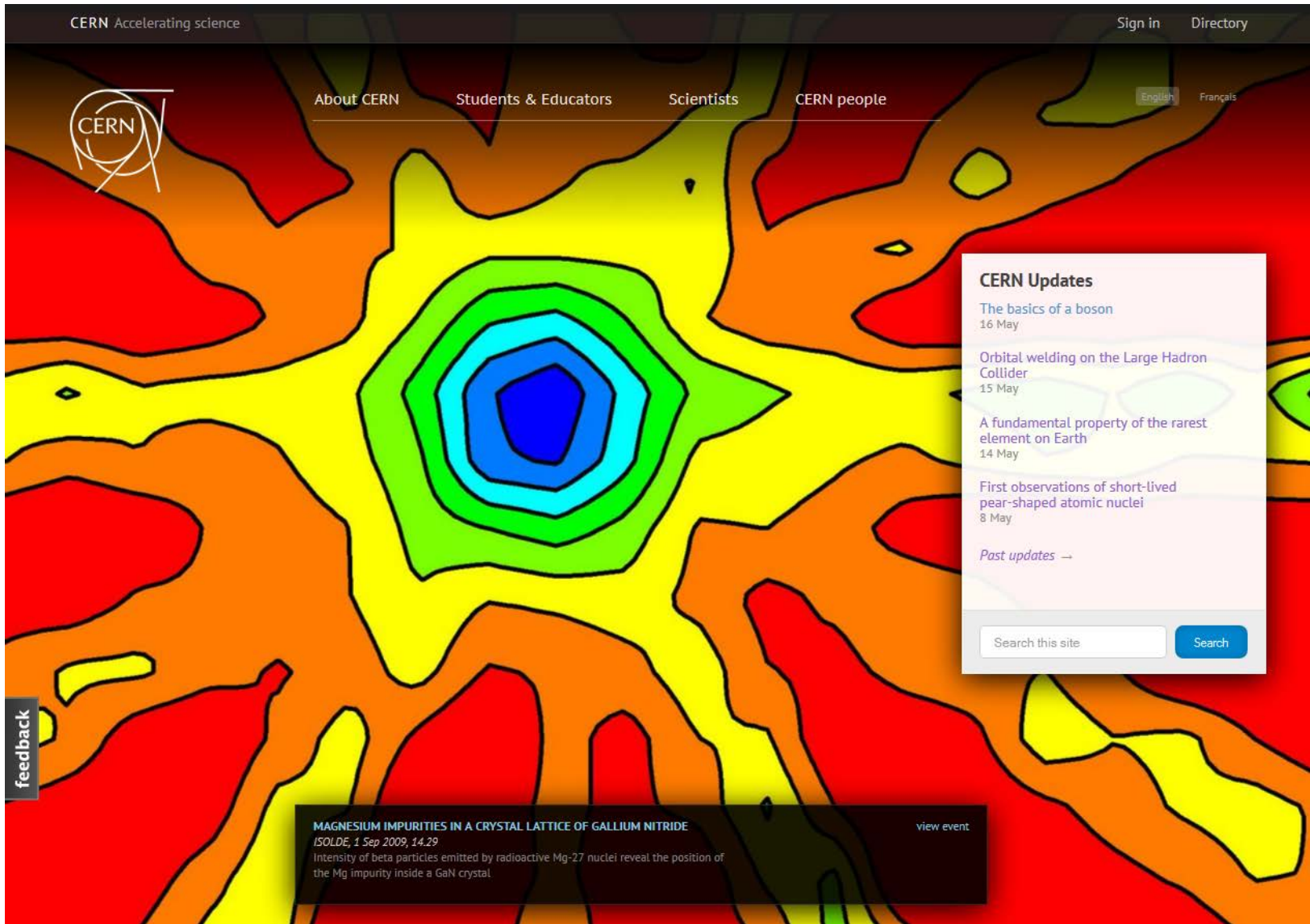


The basics of the Higgs boson

Lesson by Dave Barney & Steven Goldfarb, animation by Jeanette Nørgaard.

<http://ed.ted.com/lessons/the-basics-of-boson-dave-barney-and-steve-goldfarb>





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CERN Updates

- The basics of a boson
16 May
- Orbital welding on the Large Hadron Collider
15 May
- A fundamental property of the rarest element on Earth
14 May
- First observations of short-lived pear-shaped atomic nuclei
8 May

Past updates --

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ISOLDE, 1 Sep 2009, 14.29
Intensity of beta particles emitted by radioactive Mg-27 nuclei reveal the position of the Mg impurity inside a GaN crystal.

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http://ed.ted.com/

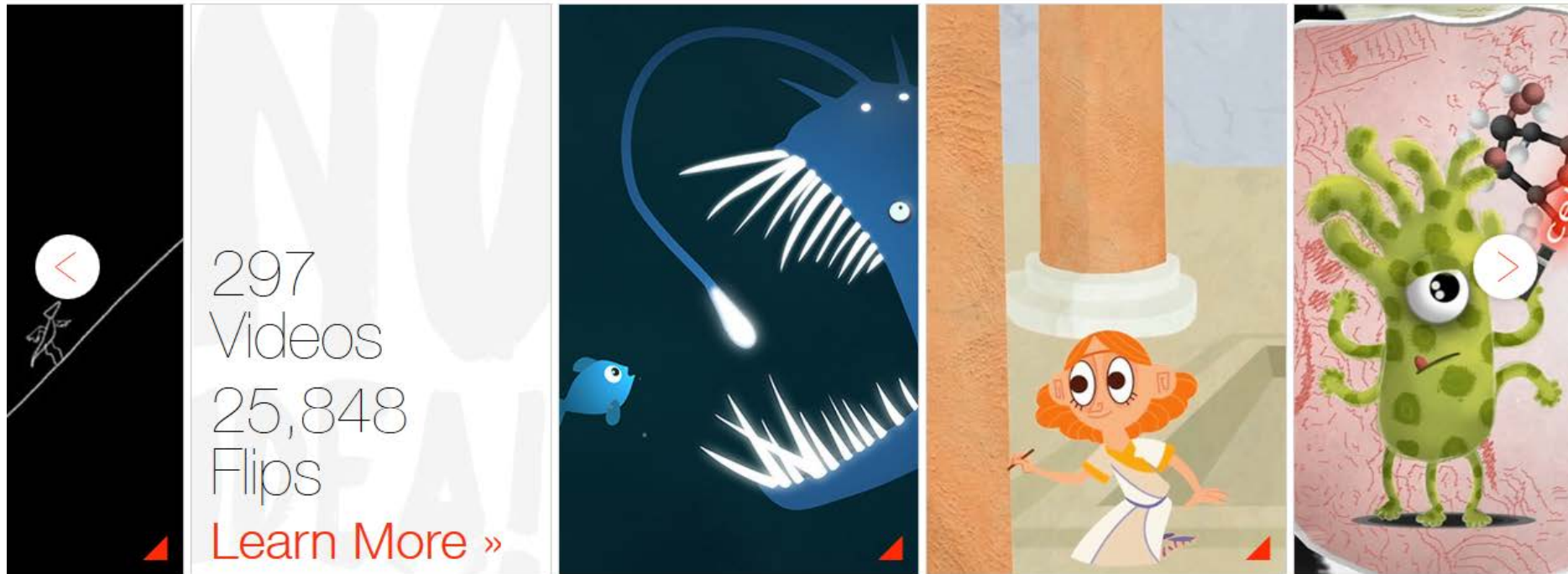
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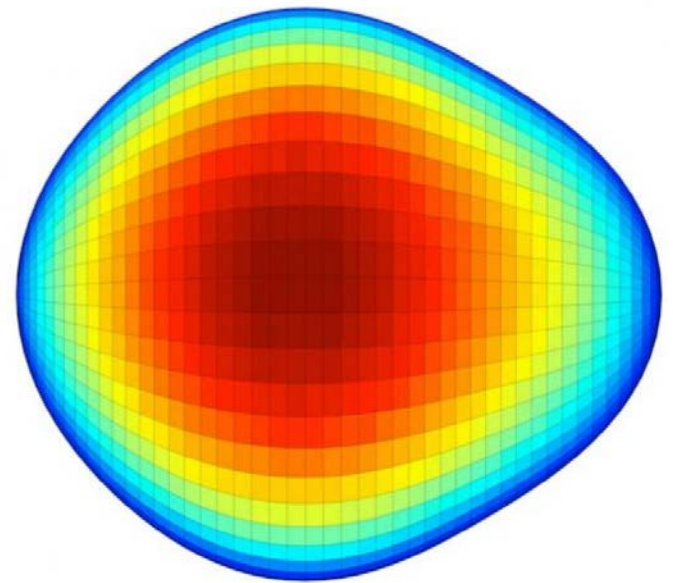
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Today's trivia answer

Q. An international team at the ISOLDE facility at CERN just announced that some atomic nuclei can assume a new shape. What is this new shape?

A. **Asymmetric "pear" shapes**
(This image shows Radium-224)



<http://opendays2013.web.cern.ch/>

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Job of the month

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CERN Take Part!



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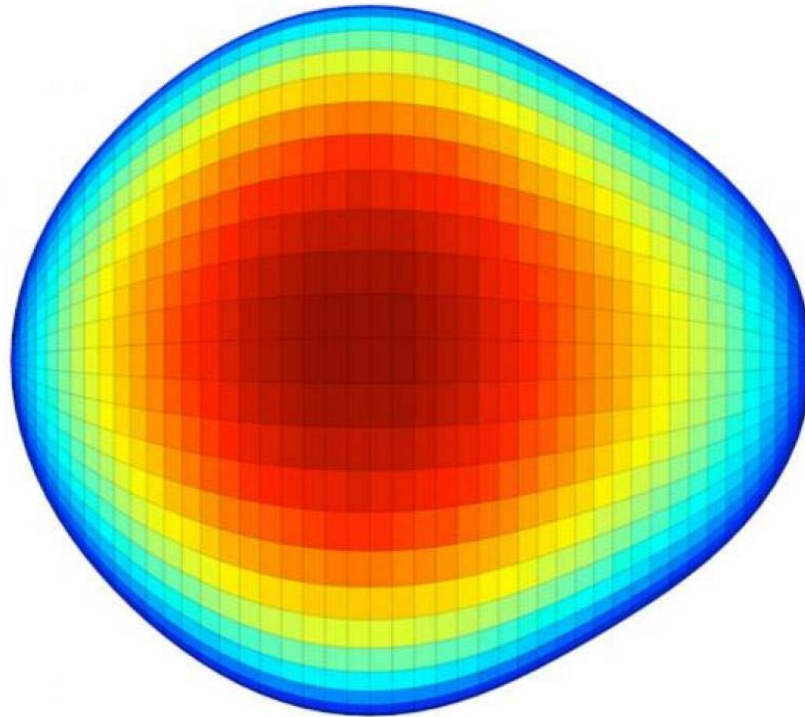
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Next Hangout with CERN

- Thursday 23 May, same time 17:00 CEST
- **Going pear-shaped**



Participants

James Gillies, Rolf Landua and Tim Smith, *CERN*

Tom Whyntie, *Queen Mary, University of London /
The Langton Star Centre, UK*

Stephanie Lo, Franz Palomares and Jeremiah Dickey,
TED-Ed, USA

Biljana Labovic, *TED-Ed, France*

Credits

Steven Goldfarb — Host

Jessica Ruby — TED-Ed Production

Kate Kahle and Achintya Rao — CERN Production

Thank you for watching!



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