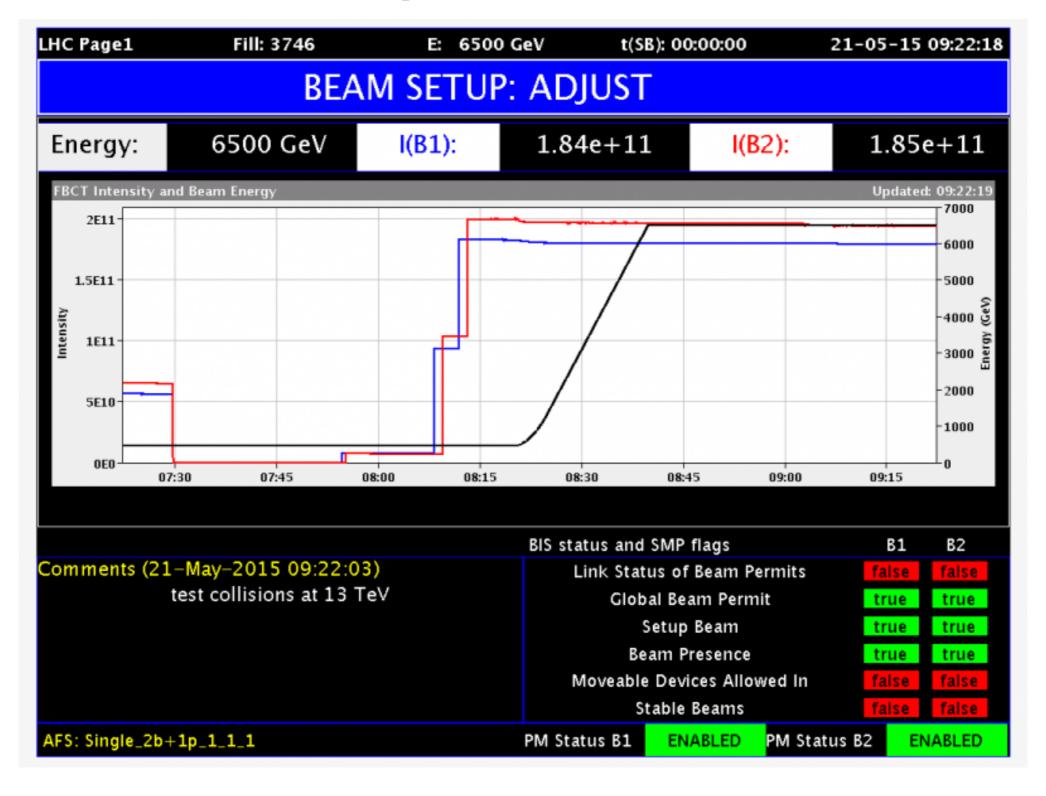
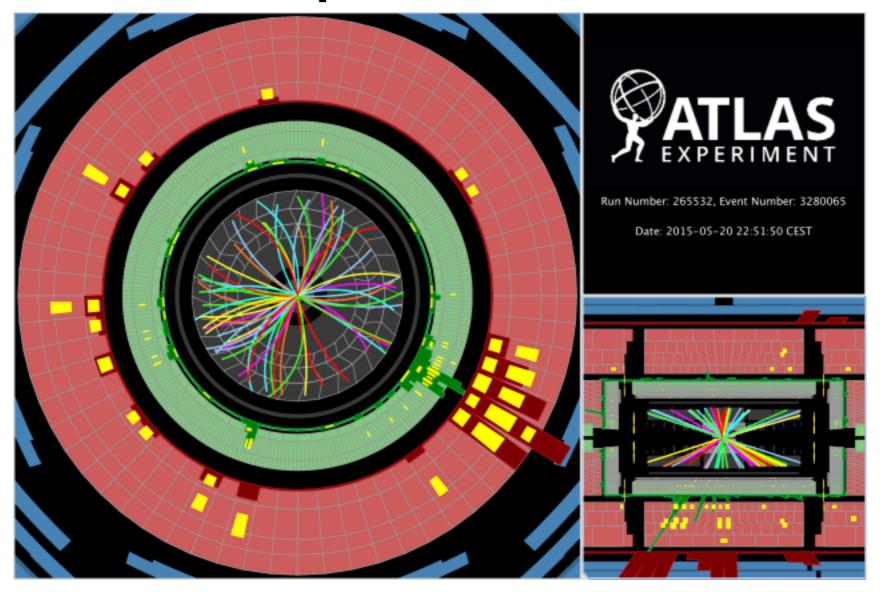


### Resources in Education

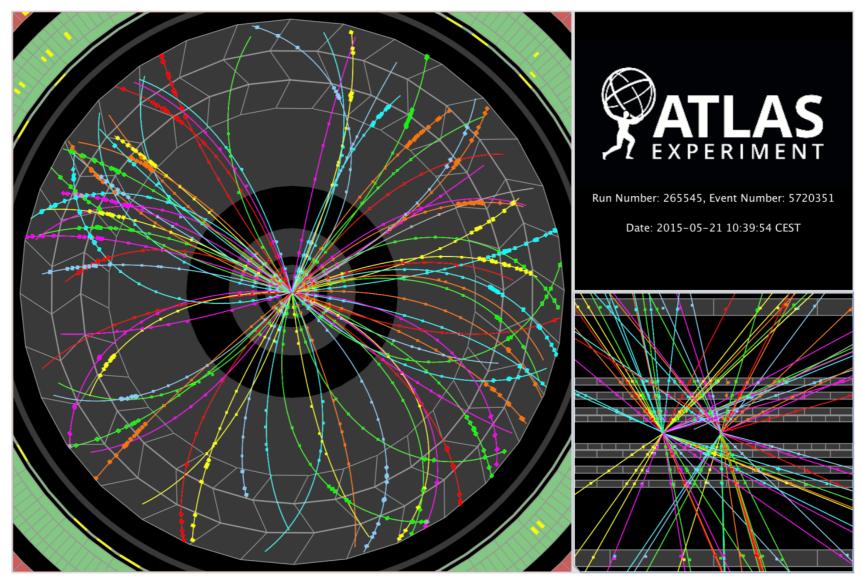
Konrad Jende, Caribbean Teacher Programme 2015





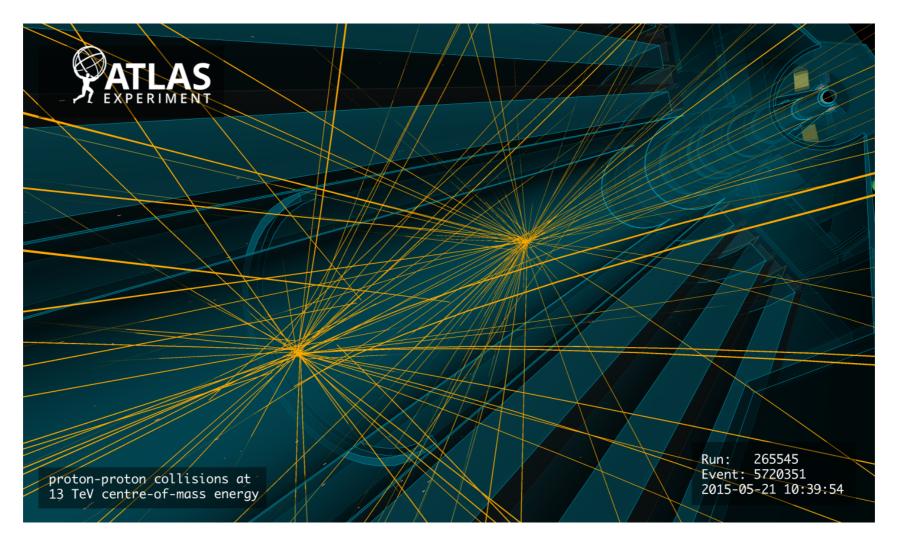
Display of a proton-proton collision event recorded by ATLAS on 20 May 2015, at 13 TeV collision energy. Tracks are reconstructed from hits in the outer parts of the inner tracking detector which were switched on at the time. The green and red bars indicate energy deposits in the Liquid Argon and Scintillating Tile calorimeters respectively.

Source: http://cds.cern.ch/record/2017404



Displays of a proton-proton collision event recorded by ATLAS on 21 May 2015, at 13 TeV collision energy. Tracks reconstructed from hits in the inner tracking detector are shown to originate from two interaction points, indicating a pile-up event.

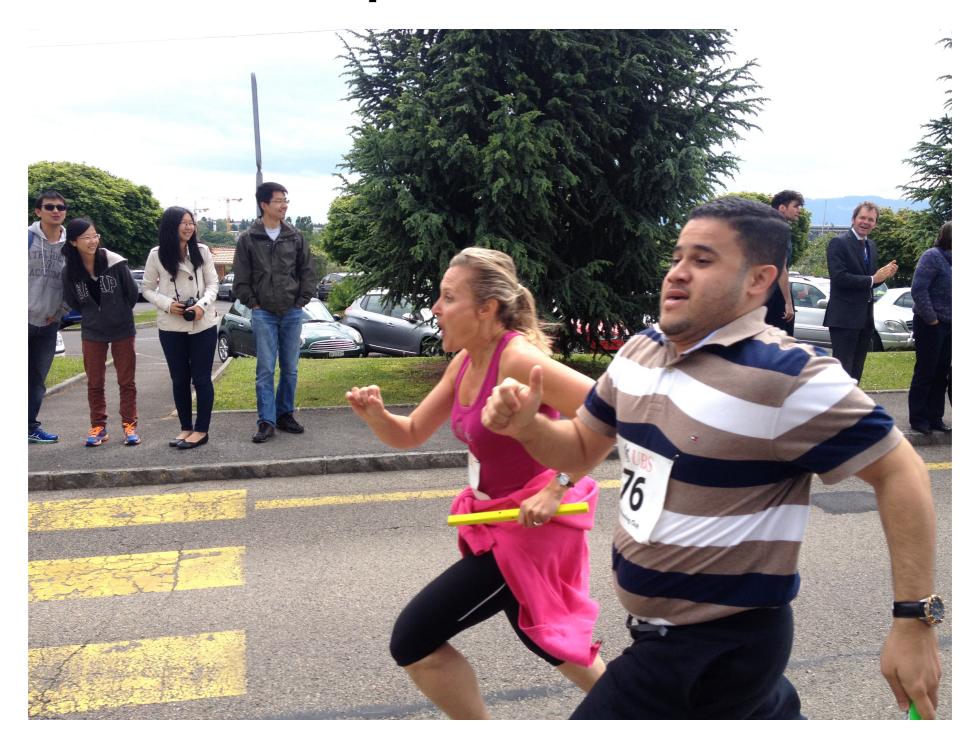
Source: <a href="http://cds.cern.ch/record/2017716">http://cds.cern.ch/record/2017716</a>



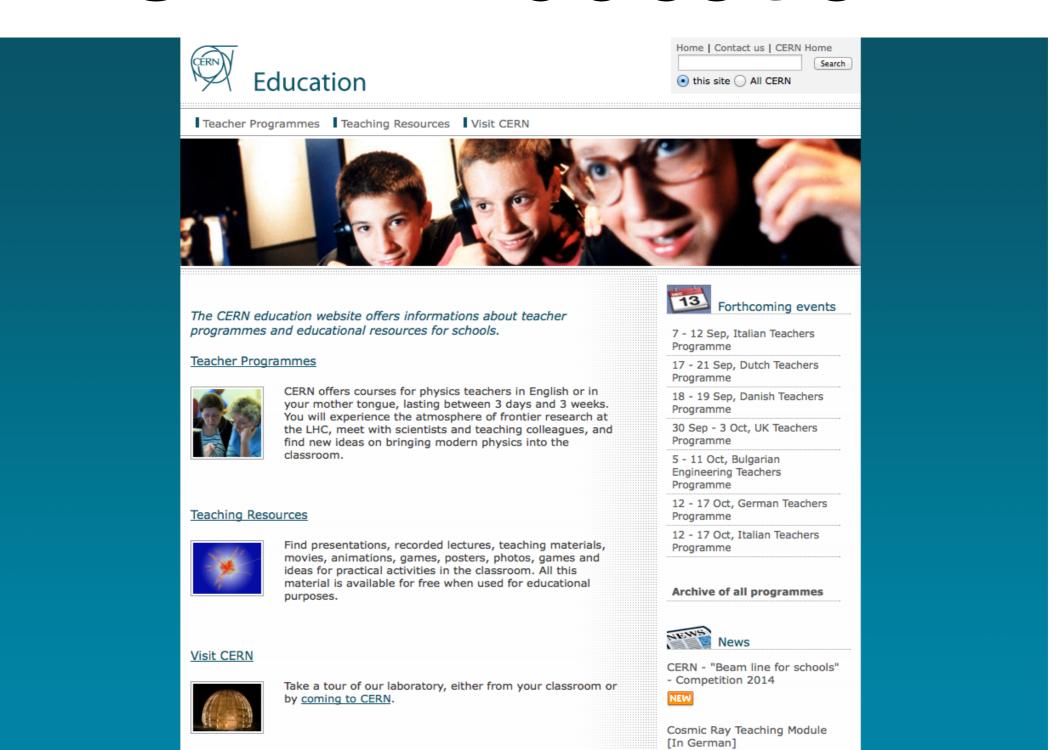
Displays of a proton-proton collision event recorded by ATLAS on 21 May 2015, at 13 TeV collision energy. Tracks reconstructed from hits in the inner tracking detector are shown to originate from two interaction points, indicating a pile-up event.

Source: <a href="http://cds.cern.ch/record/2017716">http://cds.cern.ch/record/2017716</a>





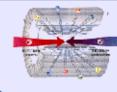
### CERN Education







#### High School Teachers at CERN



WWW.CERN.CH

**TEACHING MATERIALS** 

VISITING CERN

HST PROGRAMMES

**LINKS & BOOKS** 



The main goal of this site is to document the work done by the participants of the programme and to collect material useful for classroom activities and public education in physics, which is then available for everyone.

#### **NEWS**

Applications for HST2014 are now being accepted

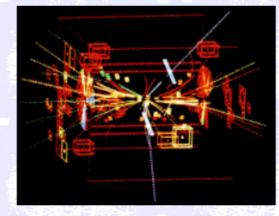
#### FOR MORE INFORMATION PLEASE FOLLOW THE LINK BELOW

#### HST TEACHING MATERIALS

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Bubble chambers
Build a Cloud Chamber
Feynman diagrams
Detectors
Experiments
About CERN and HEP
General Physics
Syllabus review

#### VISITING CERN

Microcosm CERN websites



The First Z Particle 30th April 1983 (CERN Photo)

#### PHYSICS LINKS

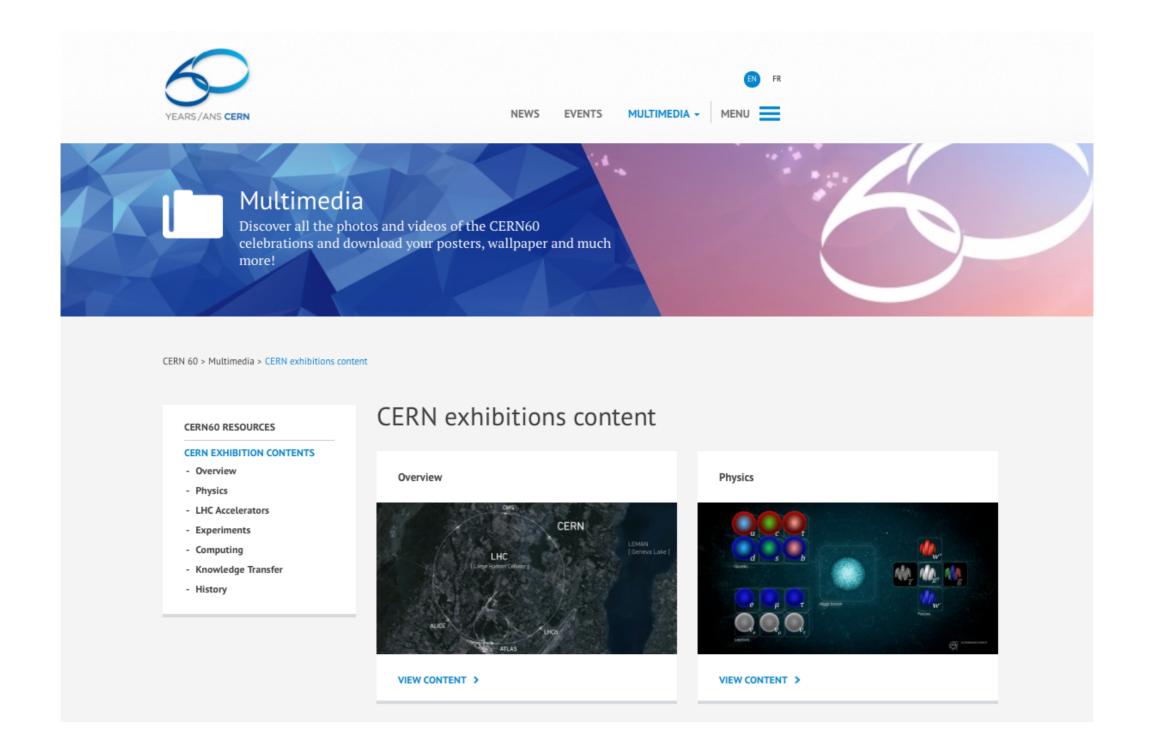
General Physics
Particle Physics
Research Organizations
Books and Journals
CERN's Educational Page

#### HST PROGRAMMES

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014

SITEMAP

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International Particle Physics Outreach Group

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Activities

#### Resources

Cart Demonstration

#### Classroom Activity Facilitated Activity Presentation Game Display Programs & Events Science Fair / Science Festival Science Camp Science Shows & Performances Symposium / Conference Classroom Outreach Program Multi-Media Contest Media Audio / Podcast Film / Video Animation - real event Animation - simulated event **Images Photos** Illustrations **Event Displays**

(static)

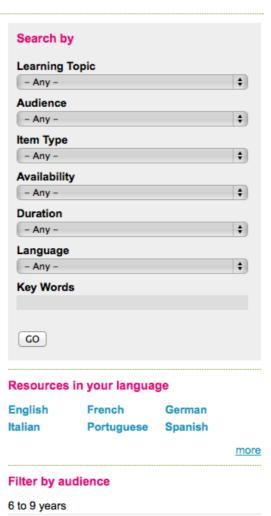
Computer game Non-game Inter-

actives / Virtual Tours

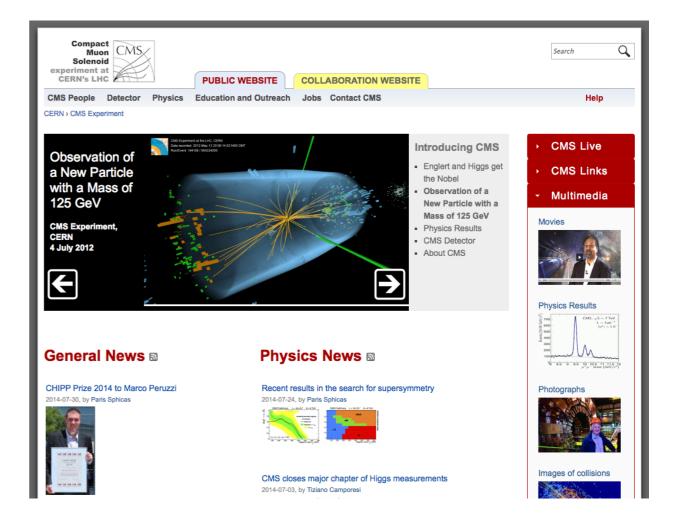
**Plots** 

Website



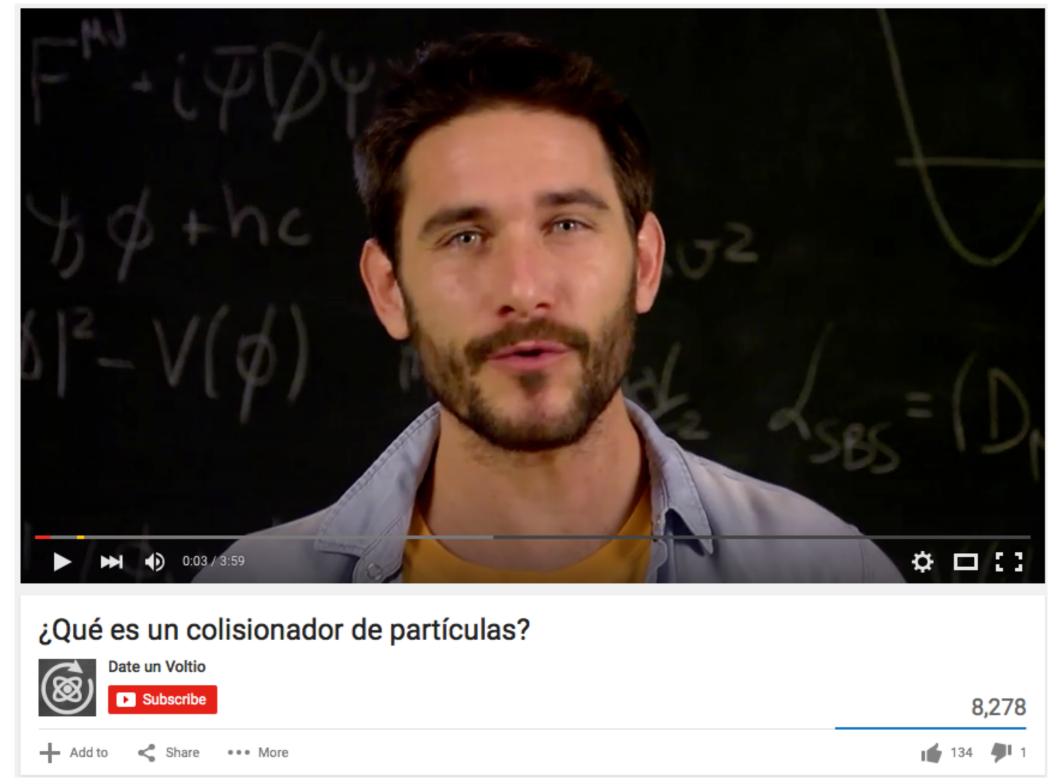
















hands on particle physics

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#### International Masterclasses

11th International Masterclasses 2015

Each year about 10.000 high school students in 42 countries come to one of about 200 nearby universities or research centres for one day in order to unravel the mysteries of particle physics. Lectures from active scientists give insight in topics and methods of basic research at the fundaments of matter and forces, enabling the students to perform measurements on real data from particle physics experiments themselves. At the end of each day, like in an international research collaboration, the participants join in a video conference for discussion and combination of their results. See 4 here for media coverage.

International Masterclasses 2015 will take place from 25.2. - 2.4.2015, including U.S. Masterclasses.

Discover the world of Quarks and Leptons with real data

















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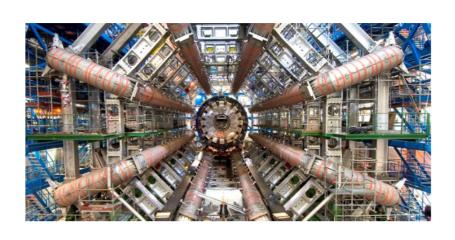




#### Accelerating Science in Latin America

How to make particle physics interesting to Latin Americans: CERN as a benchmark for global science diplomacy

Marga



LatinAmericanScience.org		
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## Any questions?



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