



Welcome to the
CODATA-RDA applied workshop on
Extreme sources of data:
ATLAS@LHC Open Data

Leonid Serkin

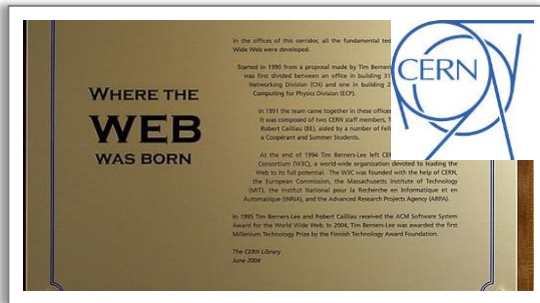
High-Energy, Cosmology and Astroparticle Physics section
ICTP, Italy

24/07/2017

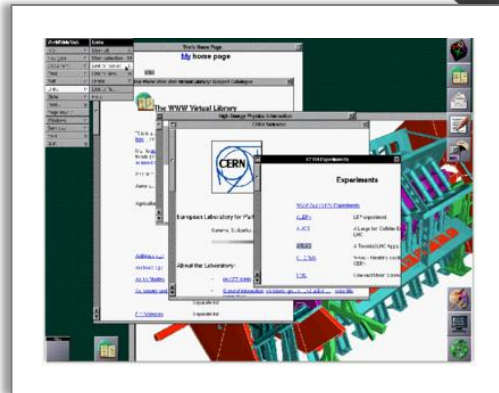
Founded in 1964 by the late Nobel Laureate Abdus Salam, the International Centre for Theoretical Physics (ICTP) has been a driving force behind global efforts to advance scientific expertise in the developing world.

ICTP seeks to accomplish its mandate by providing scientists from developing countries with the continuing education and skills that they need to enjoy long and productive careers. ICTP has been a major force in stemming the scientific brain drain from the developing world.

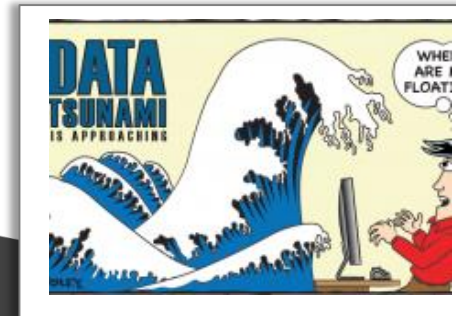
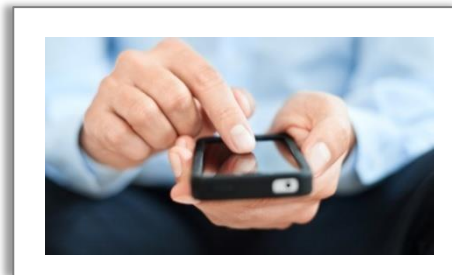




WWWeb



Supercomputers in your hand



Data in the cloud



Data tsunami and grid





The ATLAS Experiment is largest experiment at the Large Hadron Collider, and it investigates a wide range of physics



The ATLAS Open Data platform is inspiring new ways to teach high-energy physics and gives you a realistic idea of what it means to be a physicist analysing 100 trillion events



WHAT?



The ATLAS Experiment at CERN has released the data from 100 trillion proton collisions. To help users analyse this data, ATLAS has also launched a comprehensive educational platform.

WHO?

ATLAS Open Data is ideal for university-level students and educators, as well as science enthusiasts.



WHY?



The ATLAS Open Data platform brings real high-energy physics to universities around the world - helping to develop the next generation of scientists.

WHERE?

Visit the ATLAS Open Data Platform:

opendata.atlas.cern

Or the CERN Open Data Portal:

opendata.cern.ch



Monday 24/07: Introduction to Python with hands-on session

Lecturer: Alberto Sartori

Tuesday 25/07: Particle Physics, ATLAS/LHC, Monte Carlo, Grid and Big Data

Lecturers: Arturo Sanchez, Giancarlo Panizzo, Leonid Serkin

Get-together: 19:00 at Adriatico Terrace

Wednesday 26/07: ATLAS Open Data platform and tools

Lecturers: Arturo Sanchez, Leonid Serkin

Thursday 27/07: ATLAS Open Data hands-on tutorials and projects

Lecturers: Arturo Sanchez, Leonid Serkin

Friday 28/07: Project presentations + virtual visit to ATLAS

Lecturers: Arturo Sanchez, Leonid Serkin + ATLAS scientists

Today:

09:00 - 18:00

Extreme Sources of Data

Location: Adriatico Guest House - ~~Lundqvist Lecture Hall~~

09:00 **Welcome** 15'

09:15 **Introduction to Python programming language I** 1h15'

10:30 **Coffee break** 30'

11:00 **Introduction to Python programming language I** 1h30'

12:30 **Lunch break** 1h30'

14:00 **Introduction to Python programming language II** 1h30'

15:30 **Coffee break** 30'

16:00 **Python hands-on session** 1h45'

Main page with workshop information: <http://indico.ictp.it/event/8170/>

Information about ICTP and transportation to Trieste: <https://www.ictp.it/visit-ictp.aspx>

Local organizers: Clement Onime, Ivan Giroto, Marco Zennaro

Secretary: Petra Krizmancic

QUESTIONS

