

Invenio @ CERN IT

Jose Benito Gonzalez Lopez



CERN IT

DR Section

Digital Repositories

Invenio

DR Section

CERN DOCUMENT SERVER
(CDS)

CERN OPEN DATA

CERN ANALYSIS PRESERVATION

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CDS

- Production (Invenio 1.2):
 - authority records for authors + disambiguation
 - recommender system
- Development: Invenio 3

CDS labs

- Basic CDS - Invenio 3
- Migrating content
- Testing, feasibility

CDS atlas

Search

Found 10422 results.

Sort by: Best match asc.

year

Authors

- Aad, Georges (530)
- Ellis, John (32)
- Jenni, Petar (22)
- Chatrchyan, Serguei (21)
- Aielli, G (17)
- (16)
- Gan, K K (13)
- Barberis, D (12)
- Lari, T (12)
- Abelev, Betty Bezverkhny (11)

Languages

- eng (10235)
- fre (91)
- ita (22)
- rus (21)
- ger (12)
- spa (3)
- chi (2)
- dan (1)
- swe (1)

Computing and Computers
Foundations of Atlas
"Foundations of Atlas: Rapid Ajax Development With Asp.Net 2.0" is a computers/software.

Particle Physics - Experiments
Single top-quark production cross-section at the LHC in ATLAS
Measurements of the single top-quark production cross-sections with the ATLAS detector in pp collisions at the Large Hadron Collider (LHC) are presented. Results of measurements of single top-quark production in the t- and Wt-channel, as well as the determination of the CKM matrix element |V_tb| are...
DOI: 10.1051/epjconf/20147100040

Detectors and Experimental Techniques
Physics potential of ATLAS detector with high luminosity
The ATLAS experiment is designed to exploit the full physics discovery potential in the TeV energy region opened up by the Large Hadron Collider at a center of mass energy of 14 TeV with very high luminosities (10^{34} - 10^{35} cm $^{-2}$ s $^{-1}$). We present some examples of...

Detectors and Experimental Techniques
The ATLAS Muon Spectrometer
Talk on the ATLAS muon Spectrometer

Detectors and Experimental techniques
The ATLAS inner detector and flavour tagging performance
The design of the ATLAS inner detector is described, paying particular attention to recent design changes and their impact on performance. The status of construction is briefly discussed, followed by calibration and alignment issues and a summary of current flavour tagging studies.

CDS videos

- Archiving Videos
- Video experience
- Video CERN production

The screenshot shows the CDS Video website homepage. At the top, there is a search bar with the text "RECHERCHE", a "LOG IN" button, a "DIRECTORY" link, and a "ENGLISH" link. The main header features the "CDS VIDEO" logo, a search bar, and a "RECHERCHE" button. Below the header is a large banner with a blue background showing a particle collision at CERN. The banner includes the CERN logo and the text "Accélérateur de science". The main content area has a dark background. It features a "RECENT" section with the heading "MOST RECENTLY ADDED VIDEOS" and three video thumbnails: "THE GLOBE OF SCIENCE" (two people working on a machine), "LHC OPERATIONS" (a man in a control room), and "ACCELERATING SCIENCE" (a group of people standing in front of a large wooden dome). Below this is a "CHANNELS" section with the heading "MOS RECENTLY UPDATED CHANNELS" and a search bar. It displays nine video thumbnails arranged in a grid: "CERN VIDEO PRODUCTION" (a group of people at a table), "PRESS OFFICE SELECTION" (a person in a lab coat), "EXPERIMENTS" (a landscape at night), "ALICE DETECTOR" (a man on a phone), "LOREM IPSUM" (a rocket launch), "ACCELERATORS" (a laboratory setup), "LOREM DOLOR IPSUM" (a group of people), "SOME VIDEOS" (a computer screen with code), and "AT LHC IP2" (a person working at a computer). The footer contains the "CDS" logo, links to "TERMS OF USE", "NEED HELP?", "FEED BACK", "ABOUT", "FAQ", and "CONTACT US", and the text "POWERED BY INVENIO" with the Invenio logo.

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CERN Open Data

- Publicly-accessible site for curated releases of CERN **data sets** and **software**
- Contains data from all **LHC experiments**
- Based on Invenio 2.0
- <http://opendata.cern.ch>
- <https://github.com/cernopendata>

Developed by CERN SIS and CERN IT in collaboration

Education

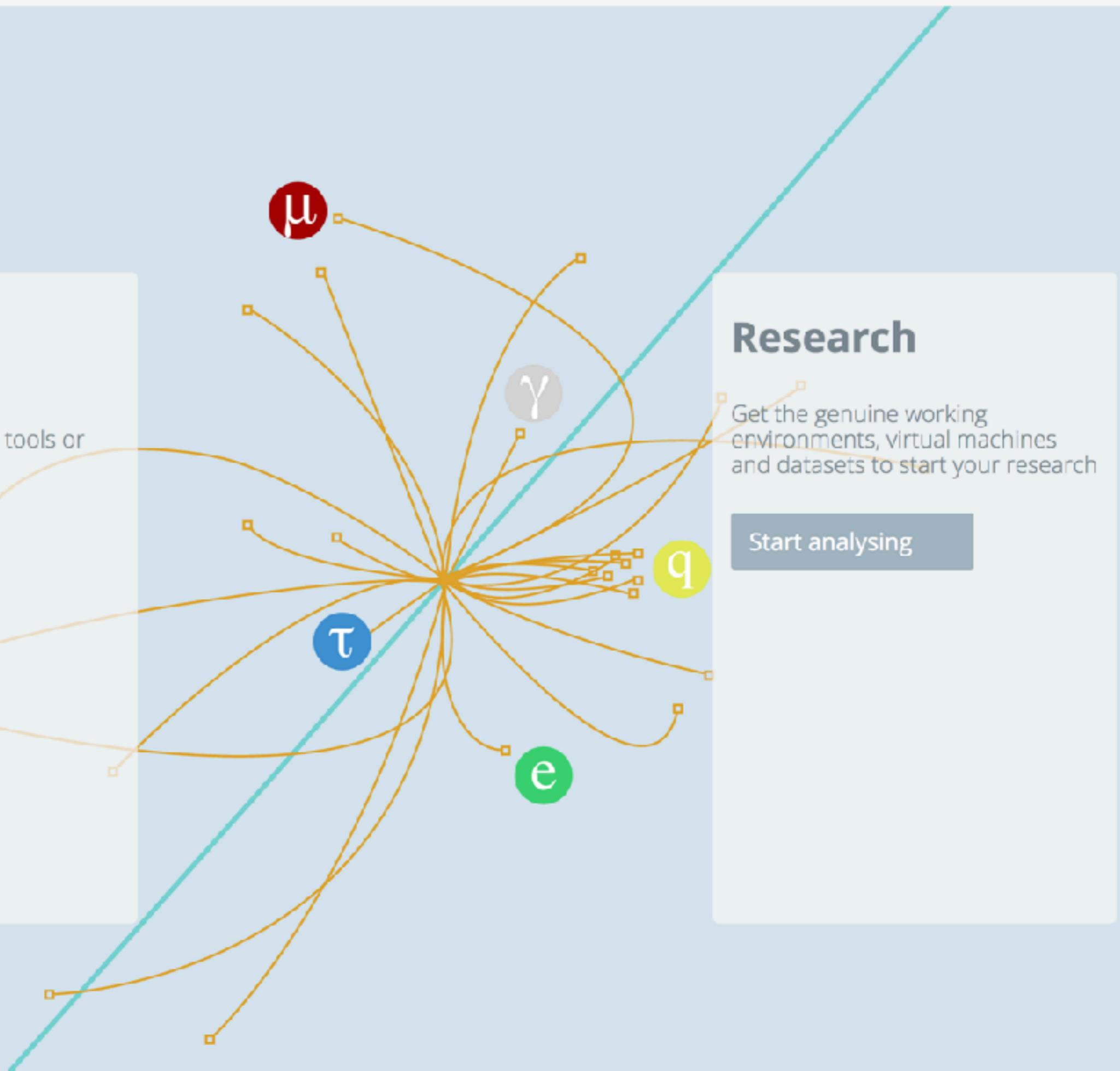
Visualise events, check reconstructed data, run tools or build your own!

[Start learning](#)

Research

Get the genuine working environments, virtual machines and datasets to start your research

[Start analysing](#)



CERN Open Data

- 2016 highlights:
 - CMS Run2011 Release (300 TB)
 - ATLAS open data release (2016)

Impact

The Washington Post

Speaking of Science

Open sourcing the secrets of the universe: huge amount of Large Hadron Collider data is now online

By Sarah Kaplan April 26 [✉](#)



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CERN Analysis Preservation

- A platform for **preserving knowledge** and **assets** of an individual physics analysis.
- Capturing the elements needed to **understand** and **rerun** an analysis even several years later:
 - ✓ data
 - ✓ workflow
 - ✓ software
 - ✓ context
 - ✓ environment
 - ✓ documentation
- <http://analysispreservation.cern.ch>
- <https://github.com/cernanalysispreservation>

Developed by CERN SIS and CERN IT in collaboration

CERN Analysis Preservation



CERN
Analysis Preservation

Welcome to the **CERN**
Analysis Preservation
Portal.

Our mission is to preserve the
analyses
across all CERN experiments for
years
to come...

 Log in with your CERN account



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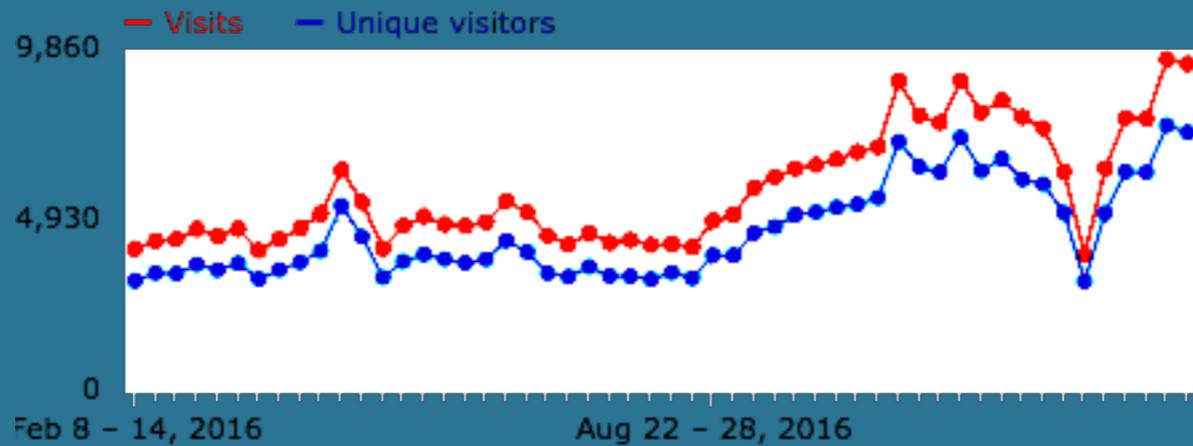
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Zenodo

- Zenodo on Invenio 3 (September)
- Search is 10 times faster
- Handling fast uploads up to 100GB of data
- 2 times more visitors and 3 times more records



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B2Share



- **EUDAT**: European e-infrastructure of integrated data services and resources to support research.
- B2Share can be deployed by any organisation
- Enables researcher to **publish research data**
- Enables communities to define custom metadata format
- B2Share v2 released as an Invenio 3 overlay (last February)
- <http://b2share.eudat.eu>.



Search records for...

SEARCH

HELP COMMUNITIES UPLOAD CONTACT

Login

[HOME](#) > RECORDS > 8B49A31F0FAA4F479F8263DB8382D531

English-Greek Lexicon of Electronics

by Kallontzopoulos Panos,

Feb 13, 2017

Last updated at Feb 23, 2017

TechnicalInfo: Second edition with more than 31.000 terms

Disciplines: 5.6.25 → Engineering → Electronic engineering;

Keywords: Lexicon, English-Greek, Dictionary ;

DOI: [10.23728/b2share.8b49a31f0faa4f479f8263db8382d531](https://doi.org/10.23728/b2share.8b49a31f0faa4f479f8263db8382d531) PID: [11304/7117c31b-ea35-437a-949a-4765c43f149d](https://hdl.handle.net/11304/7117c31b-ea35-437a-949a-4765c43f149d) 

Files

Name	Size
Lexicon_V2.xlsx	1.69MB

Basic metadata

Open Access	True ✓
License	Creative Commons Attribution-NonCommercial-ShareAlike (CC-BY-NC-SA)
URL	http://creativecommons.org/licenses/by-nc-sa/4.0/
Contact Email	pkalio@iccs.gr
Publication Date	1916-10-20

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Incubator

- **OAIS Archival Store**
 - Preserving for the long term
 - Following OAIS reference model
 - Base on Archivematica + Invenio module (integration)
- **REANA**
 - Started as part of CERN Analysis Preservation
 - Re-run research data analyses
 - <https://github.com/reanahub>

Questions?

Next

- **CDS**
 - Books (Circulation, Acquisition, ILL), Photos, “CRIS”, Self-Service
- **Open Data**
 - New data model, new UI, Invenio 3
- **Analysis Preservation**
 - Wider user testing, progressive deployment
- **Zenodo:**
 - Consolidation, DOI versioning, DSoA, Software integration
- **B2Share:**
 - UX, connecting with other EUDAT services (B2Safe, B2Drop, ...)