

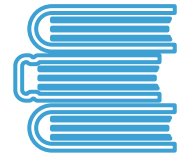


Digital Repositories at CERN

Jose Benito Gonzalez Lopez

Who are we?

SW Eng. team providing DR technology



Develop software and provide services



Open: Source, Data, Science



CERN DOCUMENT SERVER

CERN OPEN DATA

CERN ANALYSIS PRESERVATION

ZENODO

B2SHARE

OAIS ARCHIVAL STORE

REANA

INSPIRE, HEP DATA, SCOPE3

60 INSTALLATIONS
WORLD WIDE

INVENIO



INVENIO

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60 INSTALLATIONS
WORLD WIDE

INVENIO)



Invenio

<https://inveniosoftware.org>

A blue-tinted banner image showing a library or study area with bookshelves and a desk. The word 'INVENIO' is prominently displayed in white, with the 'O' stylized as a magnifying glass. Below the title, the text 'Open Source framework for large-scale digital repositories.' is centered. At the bottom, there are two white buttons: 'See examples' and 'Get started'.

INVENIO

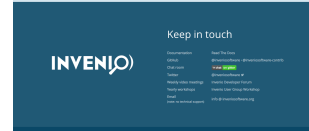
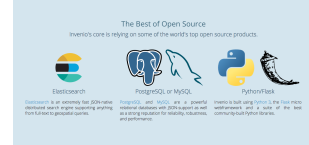
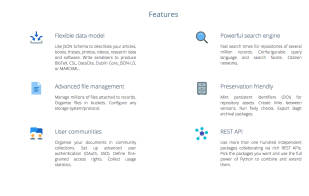
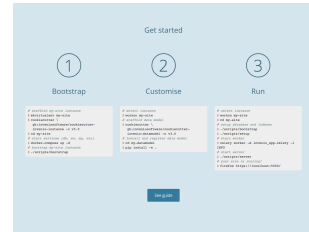
Open Source framework for large-scale digital repositories.

See examples

Get started

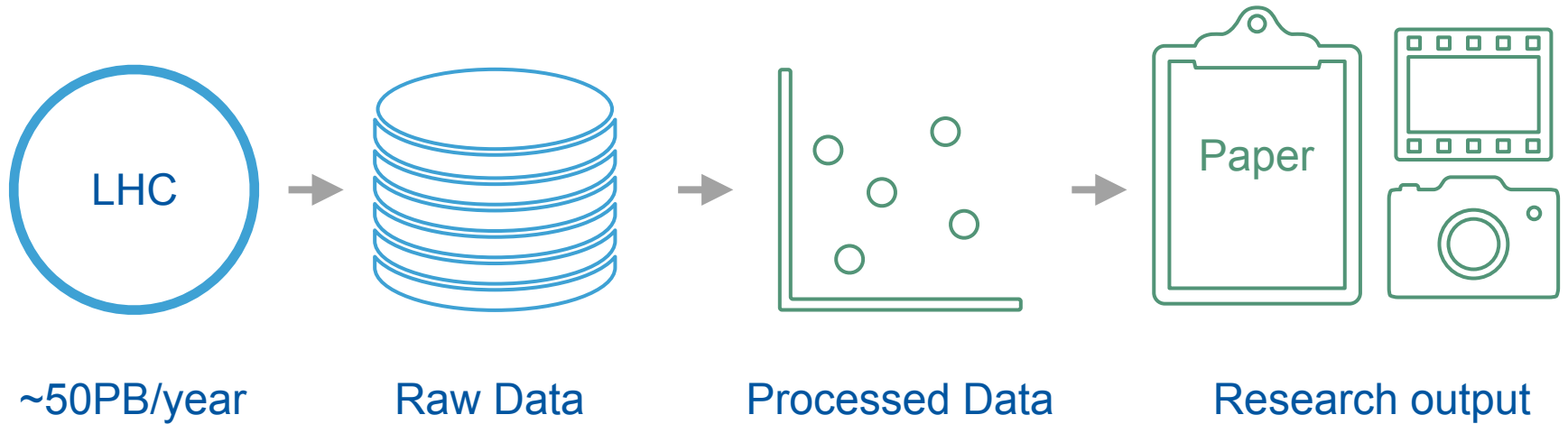
Invenio

Core for any digital repository
Modern & reliable technology
Flexible and modular
Handling **100M+** records
Develop with **PB** files in mind
Fast upload/search

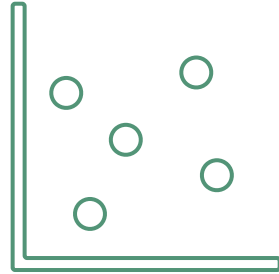


Invenio Services at CERN

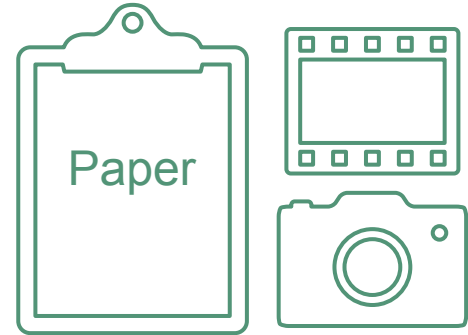
Data at CERN



At CERN



Processed Data



Research output

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Processed Data

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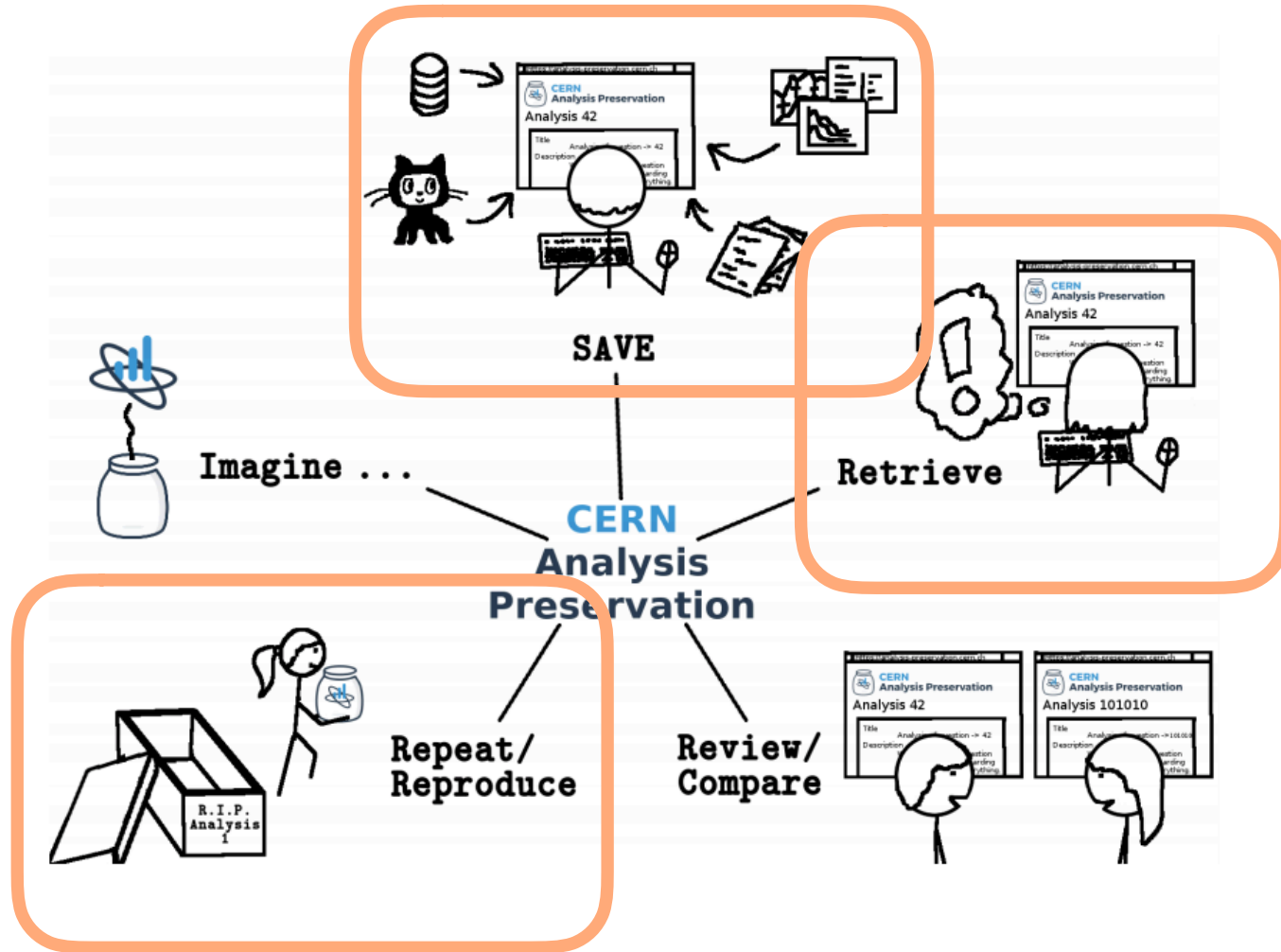
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CERN Analysis Preservation



CERN Analysis Preservation

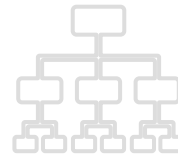
Capturing all the elements needed to understand and **rerun** an analysis even several **years**



Data



SW + Env



Workflow



Documentation

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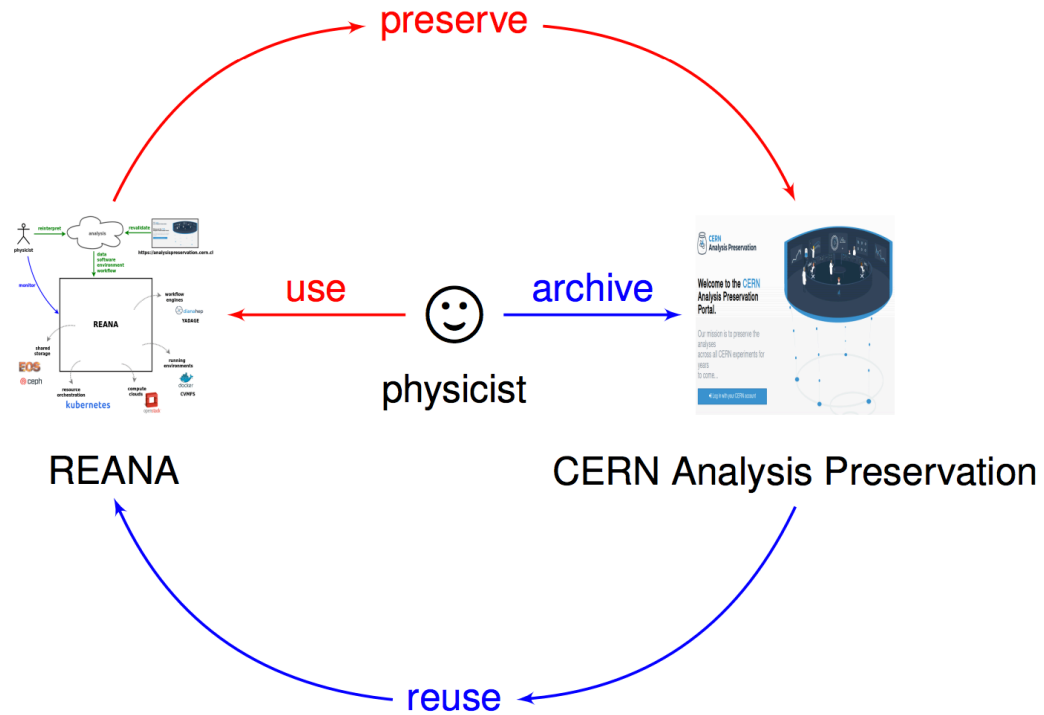
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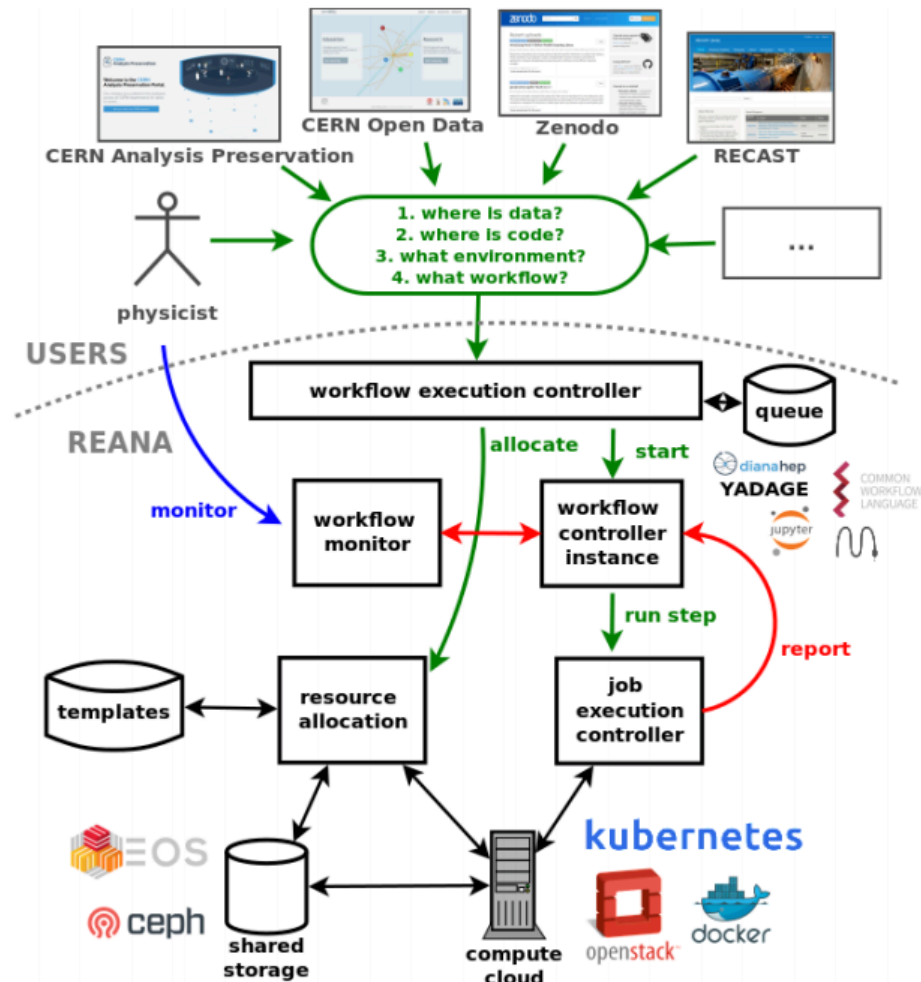
RE(usable)ANA(lysis)

<https://github.com/reanahub>



RE(usable)ANA(lysis)

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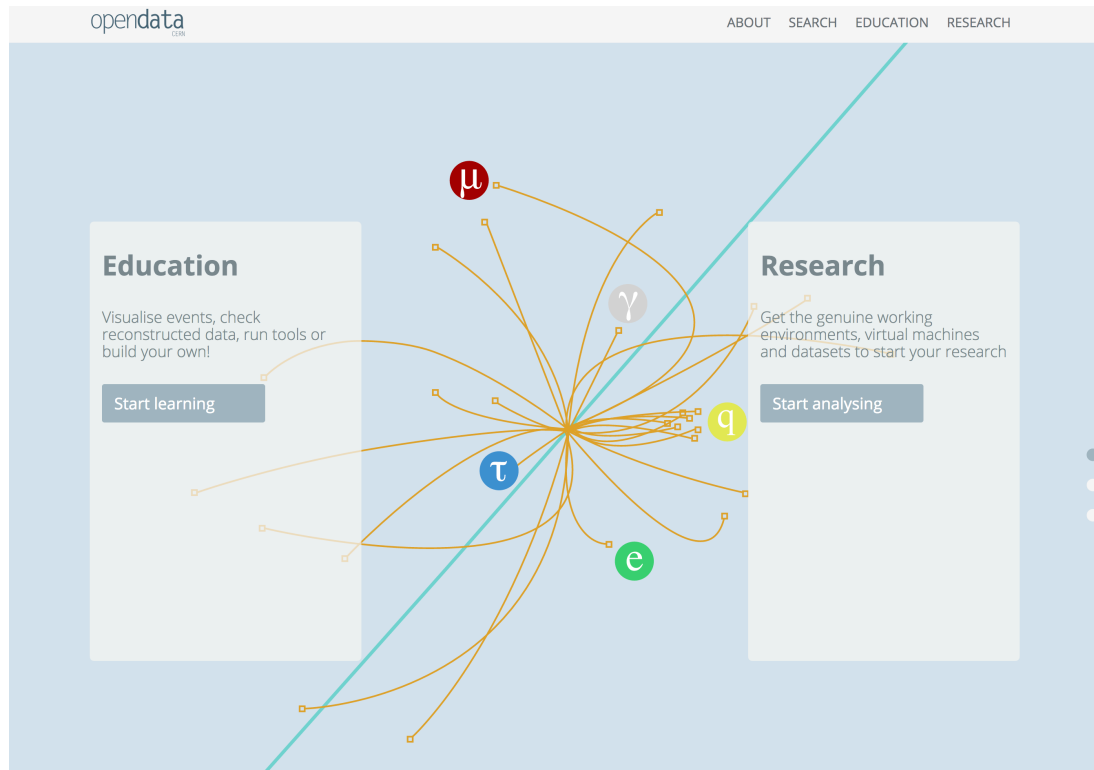
CERN Open Data Portal

Publicly-accessible site for curated releases of CERN data sets and software

LHC
and more

2016
CMS
300 TB

2017
CMS
~1 PB



<http://opendata.cern.ch>

<https://github.com/cernopendata>

BTag primary dataset in AOD format from RunA of 2011 (/BTag/Run2011A-12Oct2013-v1/AOD) 2016

/BTag/Run2011A-12Oct2013-v1/AOD **CMS collaboration**

Cite as: CMS collaboration (2016). BTag primary dataset in AOD format from RunA of 2011 (/BTag/Run2011A-12Oct2013-v1/AOD). CERN Open Data Portal. DOI: [10.7483/OPENDATA.CMS.N372.QF6S](https://doi.org/10.7483/OPENDATA.CMS.N372.QF6S)

Collection: [CMS-Primary-Datasets](#) Collision Energy: [7TeV](#) Experiment: [CMS](#) Accelerator: [CERN-LHC](#) Parent Dataset: [/BTag/Run2011A-v1/RAW](#)

Export

[JSON](#)

Description

BTag primary dataset in AOD format from RunA of 2011. Run period from run number 160404 to 173692.

Notes

This dataset contains all runs from 2011 RunA. The list of validated runs, which must be applied to all analyses, can be found in

[None](#)

Characteristics

Dataset: **11759539** events **489** files **1.8 TB** in total

System Details

Global tag: [FT_53_LV5_AN1](#)

Recommended release for analysis: [CMSSW_5_3_32](#)

How were these data selected?

Dataset defined for the calibration of b-quark tag algorithms. Events stored in this primary dataset were selected because of the presence of at least two high-energy jets, where one of them is tagged as a b-quark jet with a soft muon from the b-quark decay in the event.

Data taking / [HLT](#)

The collision data were assigned to different RAW datasets using the following [HLT configuration](#).

File Indexes

Filename	Size	Download	EOS Link
CMS_Run2011A_BTag_AOD_12Oct2013-v1_00000_file_index.txt	122 Bytes	↓	↗
CMS_Run2011A_BTag_AOD_12Oct2013-v1_20000_file_index.txt	59.5 kB	↓	↗

[First](#)[Previous](#)[1](#)[Next](#)[Last](#)

Datasets

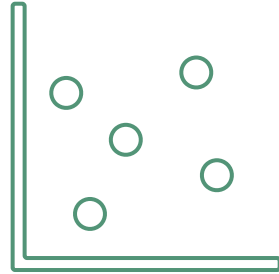
Filename	Size	Download	EOS Link
802CF580-BB46-E311-8D89-00261894388D.root	886.7 MB	↓	↗
00376186-543E-E311-8D30-002618943857.root	3.9 GB	↓	↗
0080432E-043E-E311-B4CB-00248C0BE01E.root	2.8 GB	↓	↗
00867474-453E-E311-A450-003048FFD7C2.root	3.9 GB	↓	↗
02012C2B-323E-E311-897E-003048FFD736.root	2.2 GB	↓	↗
02116E88-003E-E311-A1A9-0025905964BA.root	4.2 GB	↓	↗
0216066B-3A3E-E311-ABD0-003048FFD732.root	3.9 GB	↓	↗
02477509-3D3E-E311-A230-00261894389A.root	3.9 GB	↓	↗
02581093-3E3E-E311-8235-00248C55CC3C.root	3.9 GB	↓	↗
0297C037-2D3E-E311-83A2-00259059649C.root	4.2 GB	↓	↗

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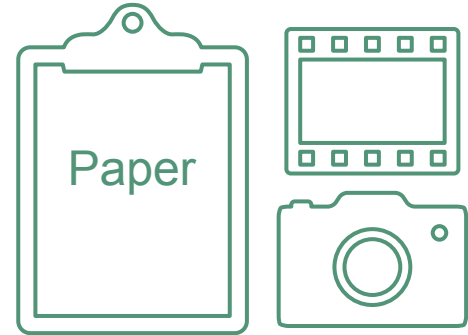
Disclaimer

The open data are released under the [Creative Commons CC0 waiver](#). Neither CMS nor CERN endorse any works, scientific or otherwise, produced using these data. All releases will have a unique DOI that you are requested to cite in any

At CERN



Processed Data



Research output

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REANA

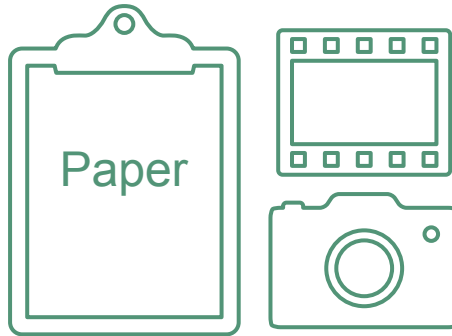
<https://reana.io>

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<http://opendata.cern.ch>

**CERN DOCUMENT
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Research output

**CERN DOCUMENT
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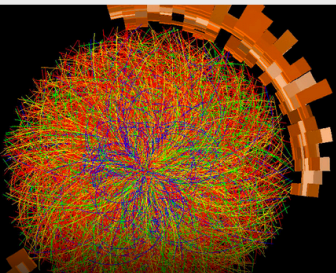
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Philosophical Aspects of Quantum Information Theory	Philosophical Aspects of Quantum Information Theory	Philosophical Aspects of Quantum Information Theory
Experimental Realization of Deutsch's Algorithm in a One-way Quantum Computer	Experimental Realization of Deutsch's Algorithm in a One-way Quantum Computer	Experimental Realization of Deutsch's Algorithm in a One-way Quantum Computer

Images



cdsliba.cern.ch



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EXPERIMENTS



ALICE DETECTOR

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ACCELERATORS



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AT LHC IP2



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Photos



16 Jan 2013. A view of the Large Magnet 180

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2017-11-14 16:35

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14-11-2017
Keywords: Miscellaneous

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Cours de formation de Sécurité
10-10-2017
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Authors

- Aad, Georges (530)
- Chatrchyan, Serguei (286)
- Khachatryan, Vardan (217)
- Aaij, R (157)
- Aaij, Roel (153)
- Bottura, L (64)
- Baer, Howard (59)
- Adam, Jaroslav (55)
- Ellis, Jonathan Richard (55)
- Heinemeyer, S (40)

Languages

- eng (37796)
- fre (358)
- ita (33)
- rus (29)
- ger (17)
- chi (10)
- spa (7)
- pol (4)
- por (3)
- jpn (1)

Topic

- Particle Physics - Phenomenology (11453)
- Detectors and Experimental Techniques (11156)

Accelerators and Storage Rings
Second order chromaticity correction of LHC V 6.0 at collision
1999-10-01
No summary

Accelerators and Storage Rings
Experience with different constructions of superconducting coils
1998-11-11 | |speert, Albert
No summary

Accelerators and Storage Rings
Electrical insulation of superconducting cables and coils in LHC
1997-04-23
No summary

Accelerators and Storage Rings
Status of the Cold Mass of the Short Straight Section for the LHC
1998-05-26 | |Peyrot, M et al.
In the framework of the LHC (Large Hadron Collider) R&D program, CERN and CEA-Staclay have collaborated to develop and construct two quadrupole magnet prototypes which have been successfully cold-tested. This collaboration has been extended as part of French special contribution to the LHC project. The previous...

Accelerators and Storage Rings
Measurement and Effects of the Magnetic Hysteresis on the LHC
2008-08-28 | |White, S M et al.
The superconducting orbit corrector magnets (MCBC, MCBY and MCBX) in the Large Hadron Collider (LHC) at CERN will be used to generate parallel separation and crossing angles at the interaction points during the different phases that will bring the LHC beams into collision. However, the field errors generated by the...

Accelerators and Storage Rings
Tune scan studies for the LHC at injection energy
2000-05-22 | |Schmidt, F
The choice of a working point in the betatron tune diagram is very important for the design of a collider like the LHC: to a great extent, the performance of the collides depends on the...

CDS

Also used for small data

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Information Discussion (0) Files

First observation of $\bar{B}^0 \rightarrow J/\psi K^+ K^-$ and search for $\bar{B}^0 \rightarrow J/\psi \phi$ decays - Aaij, R et al - arXiv:1308.5916

Main file(s):

- prd.88.e072005
version 1 [prd.88.e072005.pdf](#) [1.32 MB] 07 Nov 2013, 15:17 *APS Open Acc*

Additional file(s):

- Related data file(s)
version 1 [Related data file\(s\).zip](#) [10.36 MB] 02 Sep 2013, 16:41

arXiv file(s):

- arXiv:1308.5916
version 4 [arXiv:1308.5916.pdf](#) [4.36 MB] 26 Oct 2013, 04:15 (see previous)

Fig15b.C Fig15b.eps Fig15b.pdf Fig15b.png
Fig16a.C Fig16a.eps Fig16a.pdf Fig16a.png

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Beyond CERN

Zenodo

The screenshot shows the Zenodo homepage with a search bar at the top. Below the search bar, there are several sections: 'Recent uploads' with a list of items including 'TTCal', 'Mars surface image (Curiosity rover) labeled data set', 'Samples of solar flares classes, active regions and time of occurrence', and 'Gendered effects of the Personal Income Tax: Evidence from a schedular system with individual filing in Uruguay'. To the right, there are promotional banners for 'Zenodo now supports DOI versioning!', 'Using GitHub?', and 'Zenodo in a nutshell'. At the bottom, there is a 'Zenodo' logo and a 'New version field launched' announcement.

B2SHARE

The screenshot shows the B2SHARE website with a search bar at the top. Below the search bar, there are several sections: 'Store and publish your research data' with a 'Create Record' button, 'Latest Records' with a list of items including 'Elephant against Goliath: Performance of Big Data versus High-Performance Computing DBSCAN Clustering Implementations', 'Meteorology LTER_EU_ES_002_Aiguastortes_2006_2007', 'Gas tracking experiments', 'Magnetic power spectra of extragalactic magnetisation models', 'Tabulated volume filling factor of simulated extragalactic fields (z3 model)', and 'Retrospective climate predictions for the 2015 US wind drought'. At the bottom, there is a footer with 'EUDAT receives funding from the European Union's Horizon 2020 research and innovation programme' and 'Terms of Use HTTP API About EUDAT v2.0.1'.



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Zenodo

zenodo Search Upload Communities jose.benito.gonzalez@cern.ch

Recent uploads

November 16, 2017 (v1) Dataset Open Access View

RDA IG Data Discovery Paradigms IG: Use Cases data

de Waard, Anita; Khalsa, Siri Jodha; Psomopoulos, Fotis; Wu, Mingfang

The RDA Data Discovery Paradigms IG (<https://www.rd-alliance.org/groups/data-discovery-paradigms-ig>) aims to provide a forum where representatives from across the spectrum of stakeholders and roles pertaining to data search can discuss issues related to improving data discovery. The goal is to...

Uploaded on November 16, 2017

November 8, 2017 (v1) Dataset Open Access View

Genome assemblies for "Versatile genome assembly evaluation with QUAST-LG"

Alla Mikheenko, Andrey Pribelski, Vladislav Saveliev, Dmitry Antipov, and Alexey Gurevich

Genome assemblies of Yeast (*S. cerevisiae*, genome size: 12.1 Mb): ABruijn, Canu, FALCON, MaSuRCA (from Illumina pair-ends and PacBio) Worm (*C. elegans*, genome size: 100.3 Mb): ABruijn, Canu, FALCON, MaSuRCA (from Illumina pair-ends and PacBio) Fruit fly (*D. melanogaster*, genome size: 137.6 Mb):...

Uploaded on November 15, 2017

October 27, 2016 (v1) Software Open Access View

TTCal

Eastwood, Michael W.

TTCal is a calibration routine developed for the OVRO-LWA. The standard procedure for phase calibrating a radio interferometer usually involves slewing a small number of large dishes to stare at a known point source. A point source at the phase center of the interferometer has zero phase on all...

Uploaded on November 15, 2017

November 15, 2017 (v1) Dataset Open Access View

Mars surface image (Curiosity rover) labeled data set

Alice Stanboli; Kiri Wagstaff


This data set consists of 6603 images that were collected by the Mars Science Laboratory (MSL) Curiosity rover by three...

Alice Stanboli; Kiri Wagstaff

Mars surface image (Curiosity rover) labeled data set

Zenodo now supports DOI versioning!

Read more about it, in our newest blog post.



Using GitHub?

Check out our GitHub integration. Software Preservation Made Simple!



Zenodo in a nutshell

- Research. Shared.** — all research outputs from across all fields of research are welcome! Sciences and Humanities, really!
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- Communities** — create and curate your own community for a workshop, project, department, journal, into which you can accept or reject uploads. Your own complete digital repository!
- Funding** — identify grants, integrated in reporting lines for research funded by the European Commission via OpenAIRE.
- Flexible licensing** — because not everything is under Creative Commons.
- Safe** — your research output is stored safely for the future in the same cloud infrastructure as CERN's own LHC research data.

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Zenodo

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Get started

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Select the repository you want to preserve, and toggle the switch below to turn on automatic preservation of your software.

ON
- 2 Create a release**

Go to GitHub and [create a release](#). Zenodo will automatically download a .zip-ball of each new release and register a DOI.
- 3 Get the badge**

After your first release, a DOI badge that you can include in GitHub README will appear next to your repository below.

DOI 10.5281/zenodo.8475
(example)

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indico/angular.js	<input type="checkbox"/> OFF
indico/cephalopod	<input type="checkbox"/> OFF
indico/conference-customization-2.0	<input type="checkbox"/> OFF
indico/flask-monocokit	<input type="checkbox"/> OFF
indico/conference-customization-2.0	<input type="checkbox"/> OFF

Zenodo

[Upload](#)[Communities](#)[jose.benito.gonzalez@cern.ch](#)

November 18, 2017

Software **Open Access**

ligo-cbc/pycbc: post-O2 release 3

Alex Nitz; Ian Harry; Duncan Brown; Christopher M. Biwer; Josh Willis; Tito Dal Canton; Larne Pekowsky; Thomas Dent; Andrew R. Williamson; Collin Capano; Soumi De; Miriam Cabero; Bernd Machenschalk; Prayush Kumar; Steven Reyes; Thomas Massinger; Amber Lenon; Stephen Fairhurst; Alex Nielsen; shasvath; Francesco Pannarale; Leo Singer; Duncan Macleod; Stanislav Babak; Hunter Gabbard; John Veitch; CBC Sugar; Sebastian Khan; dfinstad; Lorena Magaña Zertuche

This is the third post-O2 release of PyCBC for analysis of data taken during Advanced LIGO's second observing run and Advanced Virgo's first observing run.

This release has been tested against LALSuite with the hash:

```
95ad957cee1a37b7fc3128883d8b723556f9ec38
```

This release updates the qtransform feature set and adds an interface to access data and information about the catalog of gravitational wave mergers.

Details of the changes since the last release are at <https://github.com/ligo-cbc/pycbc/compare/v1.8.1...v1.8.2>

A **Docker** container for this release is available from the [pycbc/pycbc-el7](#) repository on Docker Hub be downloaded using the command:

```
docker pull pycbc/pycbc-el7:v1.8.2
```

On a machine with **CVMFS** installed, a pre-built virtual environment is available for Red Hat 7 compatible operating systems by running the command:

```
source /cvmfs/oasis.opensciencegrid.org/ligo/sw/pycbc/x86_64_rhel_7/virtualenv/pycbc-v1.8.2/bin/activate
```

and for Debian 8 compatible operating systems by running the command:

```
source /cvmfs/oasis.opensciencegrid.org/ligo/sw/pycbc/x86_64_deb_8/virtualenv/pycbc-v1.8.2/bin/activate
```

A bundled `pycbc_inspirall` executable for use on the Open Science Grid is available at

```
/cvmfs/oasis.opensciencegrid.org/ligo/sw/pycbc/x86_64_rhel_6/bundle/v1.8.2/pycbc_inspirall
```

Preview

pycbc-v1.8.2.zip

ligo-cbc-pycbc-811e3d4

- gitignore 95 Bytes
- .landscape.yml 324 Bytes
- .travis.yml 21.8 kB
- Dockerfile 71 Bytes
- INSTALL 2.5 kB
- LICENSE 35.1 kB
- MANIFEST.in 122 Bytes
- README.md 2.0 kB
- bin
 - bank

Available in

GitHub

Publication date:

November 18, 2017

DOI:

DOI 10.5281/zenodo.1058970

Related identifiers:

Supplement to:

<https://github.com/ligo-cbc/pycbc/tree/v1.8.2>

License (for files):

[Other \(Open\)](#)

Versions

Version v1.8.2	Nov 18, 2017
10.5281/zenodo.1058970	
Version v1.8.1	Sep 8, 2017
10.5281/zenodo.888262	
Version v1.8.0	Sep 8, 2017
10.5281/zenodo.887622	
Version v1.7.11	Sep 1, 2017
10.5281/zenodo.883086	
Version v1.7.10	Aug 28, 2017
10.5281/zenodo.852372	

[View all 48 versions](#)

Cite all versions? You can cite all versions by using the DOI 10.5281/zenodo.596388. This DOI represents all versions, and will always resolve to the latest one. [Read more.](#)



Zenodo

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REST API

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OAI-PMH

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- Now, let's upload a new file:

- Last thing missing, is just to add some metadata:

Python cURL

```
Python cURL
/

>> # Get the deposition id from the previous response
>> deposition_id = r.json()['id']
>> data = {'filename': 'myfirstfile.csv'}
>> files = {'file': open('/path/to/myfirstfile.csv', 'rb')}
>> r = requests.post('https://zenodo.org/api/deposit/depositions/%s/files' % deposition_id,
..                   params={'access_token': ACCESS_TOKEN}, data=data,
..                   files=files)
>> r.status_code
01
>> r.json()
```

```
{
  "filename": "myfirstfile.csv",
  "id": "eb78d50b-ecd4-407a-9520-dfc7a9d1ab2c",
  "filesize": "27"
}
```

```
>>> data = {
...     'metadata': {
...         'title': 'My first upload',
...         'upload_type': 'poster',
...         'description': 'This is my first upload',
...         'creators': [{'name': 'Doe, John',
...                       'affiliation': 'Zenodo'}]
...     }
... }
>>> r = requests.put('https://zenodo.org/api/deposit/depositions/%s' % deposition_id,
...                  params={'access_token': ACCESS_TOKEN}, data=json.dumps(data),
...                  headers=headers)
>>> r.status_code
```

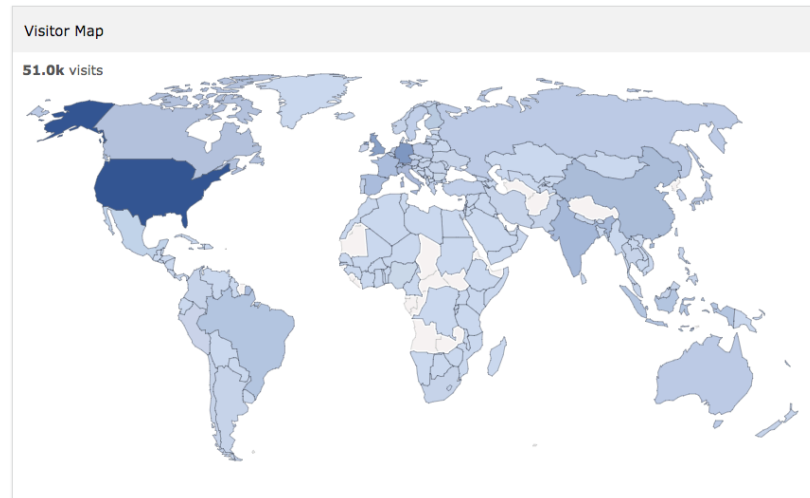
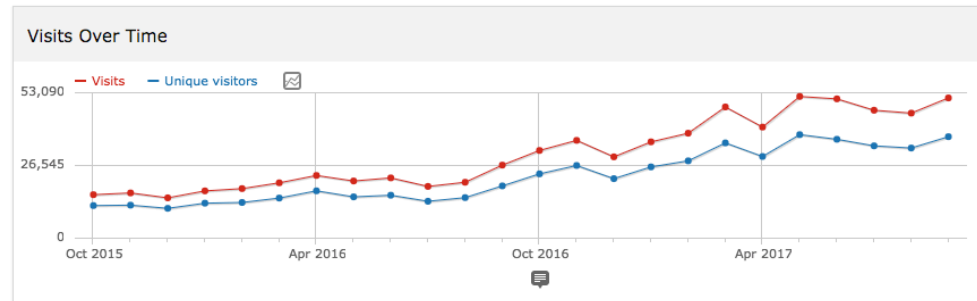
Zenodo

50K

Monthly visitors

30 TB

Stored Files



Questions?



<https://inveniosoftware.org>

<http://github.com/inveniosoftware>

<https://invenio.readthedocs.io/en/latest/>

CERN DOCUMENT SERVER

CERN OPEN DATA

CERN ANALYSIS PRESERVATION

ZENODO

B2SHARE

OAIS ARCHIVAL STORE

REANA

INSPIRE, HEP DATA, SCOPE3

60 INSTALLATIONS
WORLD WIDE

INVENIO



OAI Archival Store

Long term preservation

Using Archivematica (FOSS)

Integration done through Invenio module

Intend to integrate with CDS & Zenodo &...

<https://github.com/CERN-E-Ternity>