The PHENIX DAP update

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Overview

- Continued to upload material to Zenodo@CERN
 - Moved a few large files to Zenodo, reduced the website repo size by >100MB
 - More materials moved to the "documentation" repository on GitHub
- The DAP website:
 - Goal: to simplify site building further for future contributors
 - The logic of document references somewhat inconsistent before has been significantly improved: one central registry queried in a number of ways
 - Zenodo and overview sections added under "Resources"
 - Keywords page stubbed out
 - Website cosmetics improved
- DAP workshop (CERN-EIC) on Tuesday, June 2nd
 - o Impressions?
 - Need to revisit available tools in more detail

Zenodo references in individual pages, old style

[![DOI](https://zenodo.org/badge/DOI/10.5281/zenodo.3836478.svg)](https://doi.org/10.5281/zenodo.3836478)

[![DOI](https://zenodo.org/badge/DOI/10.5281/zenodo.3836538.svg)](https://doi.org/10.5281/zenodo.3836538)

[![DOI](https://zenodo.org/badge/DOI/10.5281/zenodo.3836568.svg)](https://doi.org/10.5281/zenodo.3836568)

Consolidating references

- Having direct references (links) to Zenodo and other external resources on individual pages works but
 - Links can be hard to read and cumbersome
 - Hard to find where and what was referenced
 - If cited on multiple pages the link code is repeated
 - Can't use selection by keywords etc when building pages
- There was already a registry of document on the site
- Now it's been improved to contain all references to all materials and some automation added to generate links based on the context
- Result: simpler and consistent code and better discovery of documents by keywords, on the site

Zenodo links declaration, old style (still better than the direct links)

```
- name: '[![DOI](https://zenodo.org/badge/DOI/10.5281/zenodo.3840266.svg)](https://doi.org/10.5281/zenodo.3840266)'
  title: The PHENIX Experiment at RHIC - Decadal Plan 2004-2013
  author: W.Zajc
  venue:
  type: document
  category: overview
 format: markdown link
  date: 11/01/2003
name: '[![DOI](https://zenodo.org/badge/DOI/10.5281/zenodo.3842204.svg)](https://doi.org/10.5281/zenodo.3842204)
 title: The PHENIX Experiment at RHIC - Decadal Plan 2011-2020
  author: B.Jacak
  venue:
  type: document
  category: overview
 format: markdown link
  date: 10/01/2010
```

Zenodo links declaration, new style

date: 10/01/2010

- name: 3840266 title: The PHENIX Experiment at RHIC - Decadal Plan 2004-2013 author: W.Zaic et al venue: Adding a link to the page by referencing these data is now very easy: resource: zenodo type: document {% include navigation/zenodo.md item=item %} category: overview format: markdown_link date: 11/01/2003 - name: 3842204 title: The PHENIX Experiment at RHIC - Decadal Plan 2011-2020 author: B.Jacak et al venue: resource: zenodo type: document category: overview format: markdown_link

Updated logic of document references

```
{% include documents/doc.md title=item.title category='detector' type='thesis' tag='brian_love_thesis' %}
{% include documents/doc.md title=item.title category='detector' type='thesis' tag='hugo_valle_thesis' %}
{% include documents/doc.md title=item.title category='detector' type='thesis' tag='ron_belmont_thesis' %}
```

- Can also fetch by other keywords (can defined as many as you want)
- Badges and links are automatically generated
- See the result below (badges are clickable on the page)
- DOI 10.5281/zenodo.3836478 The Design, Implementation, and Performance of the PHENIX Time-of-Flight West Detector (Brian Love)
- DOI 10.5281/zenodo.3836538
 Source dynamics from deuterons and anti-deuterons in 200 GeV Au+Au collisions (Hugo Valle)
- DOI 10.5281/zenodo.3836568 Measurements of identified hadrons in Au+Au and d+Au collisions at 200 GeV (Ron Belomont)

Document registry entries for the example above

```
- name: 3836538
  title: Source dynamics from deuterons and anti-deuterons in 200 GeV Au+Au collisions
  tags: [tofw, hugo_valle_thesis] .
 author: Hugo Valle
  venue:
  resource: zenodo
 type: thesis
 category: detector
 format: markdown link
  date:
- name: 3836478
  title: The Design, Implementation, and Performance of the PHENIX Time-of-Flight West Detector
  tags: [tofw, brian love thesis]
  author: Brian Love
  venue:
  resource: zenodo
  type: thesis
  category: detector
  format: markdown link
  date:
```

References to the legacy site - should they be deprecated in favor of Zenodo? (...yes)

[Brian Love's M.S. Thesis]

(https://www.phenix.bnl.gov/phenix/WWW/talk/archive/theses/2009/Love_Brian-thesis_BrianLove.pdf)

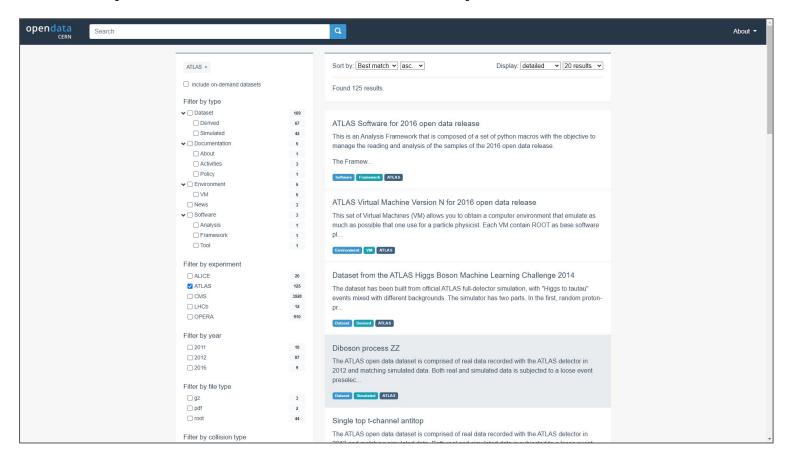
[Hugo Valle's Ph.D. Thesis]

(https://www.phenix.bnl.gov/phenix/WWW/talk/archive/theses/2008/Valle_Hugo-thesisHugoValle.pdf)

The DAP round table (EIC-CERN) June 2nd 2020

- Relatively little new material compared to the Fall'19 workshop (attended by Gabor, Maxim and Takahito plus Torre of NPPS)
- Need to revisit the tools and practices
- Ideally, create an analysis for testing with REANA
- CERN Open Data Portal: http://opendata.cern.ch/
 - Based on the same platform as Zenodo
 - Different from Zenodo in that it is a specialized platform for HEP as opposed to the generic open research repository - customized data categories and UI geared towards HEP
 - Communities (i.e. experiments) are effectively hardcoded/predefined in the UI
 - An intriguing additional tool PHENIX can leverage (but doesn't have to)
 - Need to better understand use cases vs Zenodo

CERN Open Data Portal: sample screenshot



Summary and plans

- We are following the plans previously made
 - Added "Keywords" and "Zenodo" pages
- The DAP website is getting into a better shape with simpler ways to compose pages (i.e. updated document reference system)
- Can students help with theses uploads?
- As planned, making use of the "documentation" repo
- As usual... need more material for the site
- Will revisit thoroughly the DAP tools and platforms developed and deployed at CERN
 - cf. recent HEPdata initiative by Christine et al we'll see how to incorporate this into the website and elsewhere
 - o REANA