

Status of the PHENIX website migration and other DAP items

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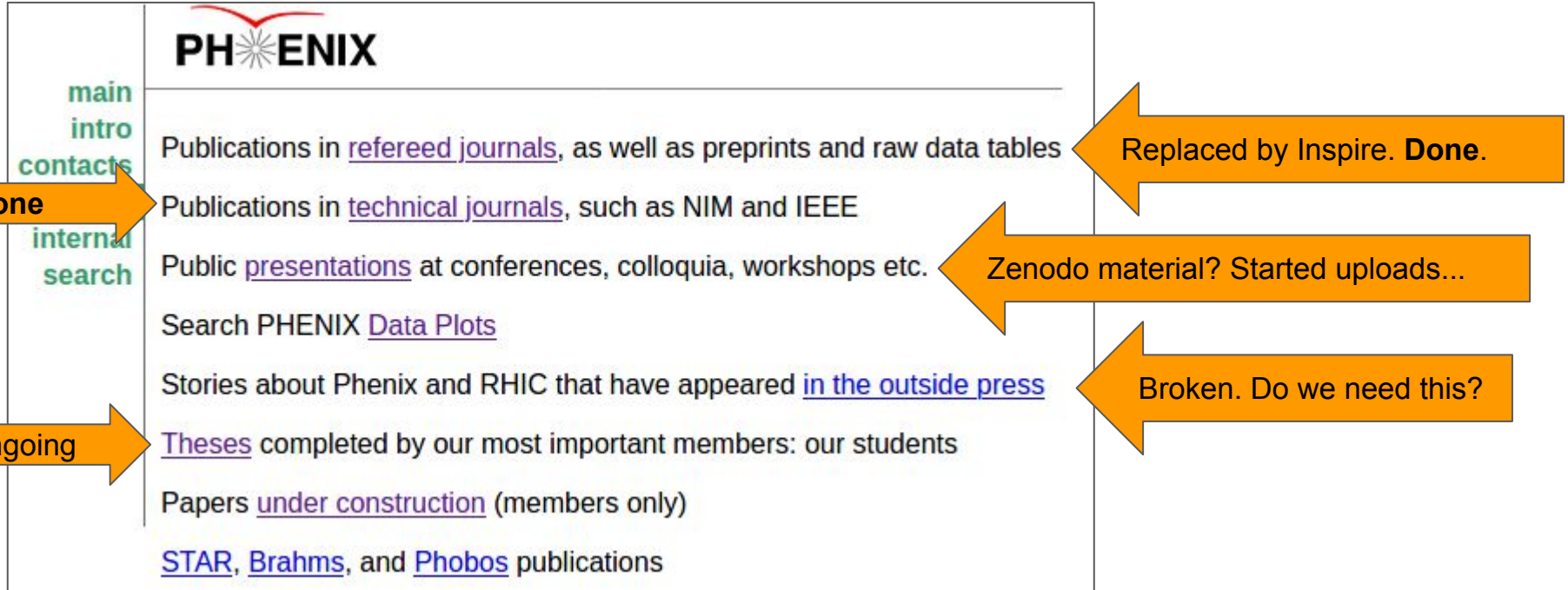
The website migration: started in 2019

- Migration effectively started a long time ago e.g. general logic of material placement for DAP (in particular in the detector section) and some content was borrowed directly from the legacy site
- In the past ~12 month, collection and migration of run, trigger and other information and other materials to the DAP site, from multiple sources

The website migration: the public page issues

- Motivations and status presented at the previous meeting
- Recently discovered that the hardware-related “focus slides” were omitted
 - Now have uploaded ~20 extra presentations, indexed and automatically included on pages
 - All the detector subsystem page on the DAP site now have at least some material
 - Also found some other previously missing papers
 - **Done**
- Links on the public page:
 - The “plots” page is now considered internal (which makes sense)
 - “Publications” - adequately handled by properly formed InspireHEP links
 - Tech notes/references - **migrated** in the past two weeks. Done!
 - Conference talks - work in progress (perhaps need to touch upon some details)
 - The active members list and contact info migrated. Done!
 - Speakers Bureau re-classified as internal

The “results” page: critical path for migration



The tech publication page: migration complete

PHENIX technical publications

PHENIX hardware series

PHENIX detector overview

K. Adcox et al.,

NIM A499 469-479 (2003) [pdf](#) [ps](#)

PHENIX magnet system

S.H. Aronson et al.,

NIM A499 480-488 (2003) [pdf](#) [ps](#)

PHENIX central arm tracking detectors

K. Adcox et al.,

NIM A499 489-507 (2003) [pdf](#) [ps](#)

PHENIX central arm particle I.D. detectors

M. Aizawa et al.,

NIM A499 508-520 (2003) [pdf](#) [ps](#)

The PHENIX calorimeter

L. Aphecetche et al.,

NIM A499 521-536 (2003) [pdf](#) [ps](#)

PHENIX muon arms

H. Akikawa et al.,

NIM A499 537-548 (2003) [pdf](#) [ps](#)

PHENIX inner detectors

M. Allen et al.,

NIM A499 549-559 (2003) [pdf](#) [ps](#)

PHENIX on-line systems

S.S. Adler et al.,

NIM A499 560-592 (2003) [pdf](#) [ps](#)

PHENIX on-line and off-line computing

S.S. Adler et al.,

NIMA499 593-602 (2003) [pdf](#) [ps](#)

The complete volume

Edited by M. Harrison, T. Ludlam and S. Ozaki,

[Volume 499, Issues 2-3, Pages 235-880 \(1 March 2003\)](#)

The Relativistic Heavy Ion Collider Project: RHIC and its Detectors

HE

"Design, Construction, Operation and Performance of a Hadron Blind Detector for the P

W. Anderson et al. Mar 2011. 51pp. [arXiv:1103.4277](#)

RXN

"A reaction plane detector for PHENIX at RHIC",

E. Richardson et al., [Nucl. Inst. and Meth. A 636 \(2011\) pp. 99-107](#)

GEM HE for PHENIX

A. Kozlov et al., Development of a triple GEM UV-photon detector operated in pure CF4 for the P

Pad Chambers Construction

"Construction and performance of the PHENIX pad chambers",

Anders Oskarsson et al.

Nuclear Inst. and Methods in Physics Research A497/2-3, pp 263 - 293 (2003)

"The pixel readout system for the PHENIX pad chambers",

Paul B. Nilsson for the PHENIX pad chamber group.

Nuclear Physics A661, (1999) 665: [pdf](#)

Silicon Upgrade

"Vertex detector upgrade plans for the PHENIX experiment at RHIC",

Johann Heuser et al.

Nuclear Inst. and Methods in Physics Research A511/1-2, pp 210-214 (September 2003)

[pdf at Elsevier](#) [pdf at Phenix](#)

Muon alignment

"Optical Alignment System for the PHENIX Muon Tracking Chambers",

Collaboration
Experiment
Detectors
Software
Analysis
Resources

General Overviews

- PHENIX Detector Overview (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01950-2)

Detector Subsystems

- [DOI: 10.5281/zenodo.3966470](#) Performance of PHENIX HBD in Au+Au central collisions (QM2011 poster) (Yosuke Watanabe)
- Ring imaging Cherenkov detector of PHENIX experiment at RHIC (NIM A 433, 1999, doi.org/10.1016/S0168-9002(99)00319-8)
- GEM: A new concept for electron amplification in gas detectors (NIM A 386, 1997, doi.org/10.1016/S0168-9002(96)01172-2)
- Optical alignment system for the PHENIX muon tracking chambers (NIM A 500, 2003, doi.org/10.1016/S0168-9002(03)00318-8)
- arXiv:nucl-ex/0212027
- Vertex detector upgrade plans for the PHENIX experiment at RHIC (NIM A 511, 2003, doi.org/10.1016/S0168-9002(03)01795-9)
- The pixel readout system for the PHENIX pad chambers (NIM A 661, 1999, doi.org/10.1016/S0375-9474(99)85113-6)
- Construction and performance of the PHENIX pad chambers (NIM A 497, 2003, doi.org/10.1016/S0168-9002(02)01791-6)
- PHENIX Calorimeter (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01954-X)
- PHENIX Inner Detectors (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01956-3)
- PHENIX Magnet System (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01951-4)
- PHENIX Muon Arms (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01955-1)
- Front-end electronics for PHENIX time expansion chamber (2001 IEEE Nuclear Science Symposium Conference Record (Cat. No.01CH37310), doi.org/10.1109/NSSMIC.2001.1008528)
- Low-mass Drift Chambers of the PHENIX central spectrometers at RHIC (NIM A 494, 2002, doi.org/10.1016/S0168-9002(02)01464-X)
- PHENIX Central Arm Tracking Detectors (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01952-6)
- PHENIX Central Arm Particle ID Detectors (NIM A 499, 2003, doi.org/10.1016/S0168-9002(02)01953-8)
- A large-acceptance spectrometer for tracking in a high-multiplicity environment, based on space point measurements and high-resolution time-of-flight (NIM A 431, 1999, doi.org/10.1016/S0168-9002(99)00261-2)
- A reaction plane detector for PHENIX at RHIC (NIM A 636, 2011, doi.org/10.1016/j.nima.2011.01.034) arXiv:1012.0873
- Design, construction, operation and performance of a Hadron Blind Detector for the PHENIX experiment (NIM A 646, 2011, doi.org/10.1016/j.nima.2011.04.015) arXiv:1103.4277

An example of a conference talk published on Zenodo

The screenshot shows a Zenodo repository page for a presentation. The header includes the Zenodo logo, a search bar, and navigation links for 'Upload' and 'Communities'. The user profile 'phenix-dap-l@lists.bnl.gov' is visible in the top right. The page is dated 'September 3, 2020' and features buttons for 'Presentation' and 'Open Access'. The title of the work is 'Droplets of quark gluon plasma: PHENIX results on small systems at RHIC', authored by 'Belmont, Ron'. A brief description reads: 'Overview of PHENIX results on small systems at RHIC.' On the right side, there are buttons for 'Edit' and 'New version', and a 'Communities' section showing 'PHENIX Collaboration' with a 'Remove' button. Below this, statistics show '0 views' and '0 downloads' with a link to 'See more details...'. The 'Indexed in' section displays the 'OpenAIRE' logo. The 'Publication date' is 'September 3, 2020', and the 'DOI' is '10.5281/zenodo.4012723'. The 'Keyword(s)' are 'rhic', 'phenix', 'small systems', and 'qgp'. The 'Meeting' is 'THE 36TH WINTER WORKSHOP ON NUCLEAR DYNAMICS, Puerto Vallarta, Mexico, 01-07 March'. The main content area shows a preview of the presentation slide, which has a blue header with the title and lists the author 'Ron Belmont' from the 'University of North Carolina at Greensboro'. It also mentions the 'Winter Workshop on Nuclear Dynamics' in 'Puerto Vallarta, Jalisco, Mexico' on '2 March 2020', and includes the PHENIX and UNC Greensboro logos. At the bottom, a table lists the files: 't2784.pdf' (3.9 MB), with options to 'Preview' or 'Download'.

zenodo Search Upload Communities phenix-dap-l@lists.bnl.gov

September 3, 2020 Presentation Open Access Edit New version

Droplets of quark gluon plasma: PHENIX results on small systems at RHIC

Belmont, Ron

Overview of PHENIX results on small systems at RHIC.

Preview

Page: 1 of 48 Automatic Zoom: 0 views 0 downloads See more details...

Indexed in OpenAIRE

Publication date: September 3, 2020
DOI: 10.5281/zenodo.4012723
Keyword(s): rhic phenix small systems qgp
Meeting: THE 36TH WINTER WORKSHOP ON NUCLEAR DYNAMICS, Puerto Vallarta, Mexico, 01-07 March

Name	Size
t2784.pdf	3.9 MB

Visual Materials (photo and video)

- Not too important for analysis but adds a friendly touch
 - Educational: students would benefit from such orientation as the detector itself is gone
- The website itself is not a very good container for that
 - But we have Zenodo!
- Recent Zenodo uploads
 - Videos (virtual tours of PHENIX, RHIC and the Spin Program)
 - A gallery of the RICH Installation
- Added some magnet pics
- In general, this is the last time to capture this before material is gone - some links are already broken - so will continue this activity

An example of a photo gallery published on Zenodo


September 1, 2020 [Figure](#) [Open Access](#)

A selection of photographs of the installation of the PHENIX RICH (East Section).

[Potekhin, Maxim](#)

A selection of photographs of the installation of the PHENIX RICH (East Section). Uploaded by M.Potekhin for PHENIX Collaboration.

[Preview](#)



Files (1.0 MB)

Name	Size	
001_at_832.jpg		Preview Download
md5cc7bedbe71f6d6d65b1679e97b8918a		
009_flying_in_1008.jpg	196.9 kB	Preview Download
md5a3235d21b8e3e2b028d6c6852226807b		
015_on_EC_side.jpg	350.8 kB	Preview Download

Communities

PHENIX Collaboration [Remove](#)

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Publication date:
September 1, 2020

DOI:
[DOI: 10.5281/zenodo.4099856](#)

Keyword(s):
[rich](#) [rich](#)

Communities:
[PHENIX Collaboration](#)

License (for files):
[Creative Commons Attribution 4.0 International](#)

Versions

Version 1 Sep 1, 2020

Improved the appearance of the site

- Adjusted the navigation bar
- Cleaned up the UI code
- Switched to the color scheme used by the Bootstrap framework
- Added responsive buttons to the run navigation bar

Recent additions

- Analysis chains (starting with muon arm J/psi) - thanks Gabor
 - One more recent addition
 - Comment - legacy links to www.phenix.gov
- The J/psi paper contains references to sPHENIX software, are we OK with it?

Hosting at BNL

- We are enjoying free hosting on GitHub
- However it is helpful use the domain *phenix.bnl.gov*
 - Most easily achieved by placing the pre-generated site on a BNL server
 - Security is not a concern so should move through Cyber quickly
- The site was looked at by Chris and Mizuki with a favorable feedback
- Will establish the release schedule
- Can we get the deployment done before the DOE site visit as a reportable milestone?
- Hidden or implicit links need to be looked at (cf. the CVS browser link still goes to phenix.bnl.gov)
 - Solution - design a nice custom 404 page explaining that certain services are available for PHENIX members on the internal site

Software preservation

- Flagged as an item of interest for the upcoming DOE site visit
- What can be reported
 - Containerization of the production environment - this was discussed with Chris and SDCC on Wed 9/2/2020 and a few details were clarified
 - In practice, preservation of images on CVMFS should probably be enough (i.e. not committing this to Zenodo)
 - Upcoming analysis chain documentation and other use cases (e.g. Takashi's analysis chain which I'm still hopeful I can bring into shape)
 - Containerization of analysis will likely not be within our reach

Summary

- Our Zenodo cache of material doubled in the past two weeks
- We are almost ready for real migration i.e. to move to phenix.bnl.gov
 - Need to resolve the issue of legacy link like the CVS browser etc
 - A “nice to have item” - mobile site - at present the new site only works on desktops and laptops
- A few remaining work items can still progress (e.g. conference talks)
- Collection and submission to Zenodo and HEPData will continue
- Recent analysis chain effort by Gabor et al is much appreciated
- ...these slides will be uploaded to GitHub as is customary