



# Roundtable Introduction

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05/07/26

    @BrookhavenLab

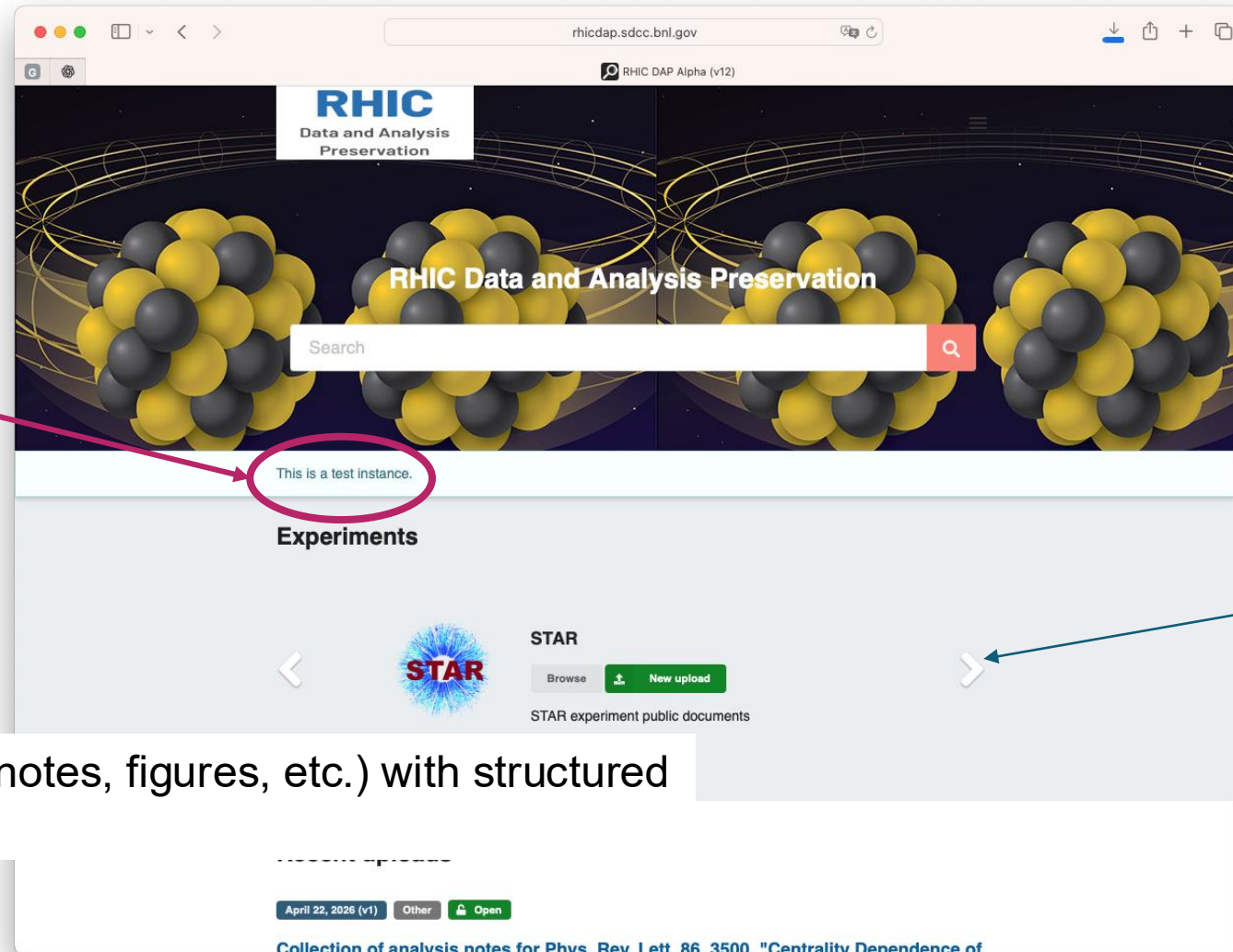
# Today

STAR re-analysis – Ankush

SciBot Update – Atif

Update on Invenio repository & DataSheets

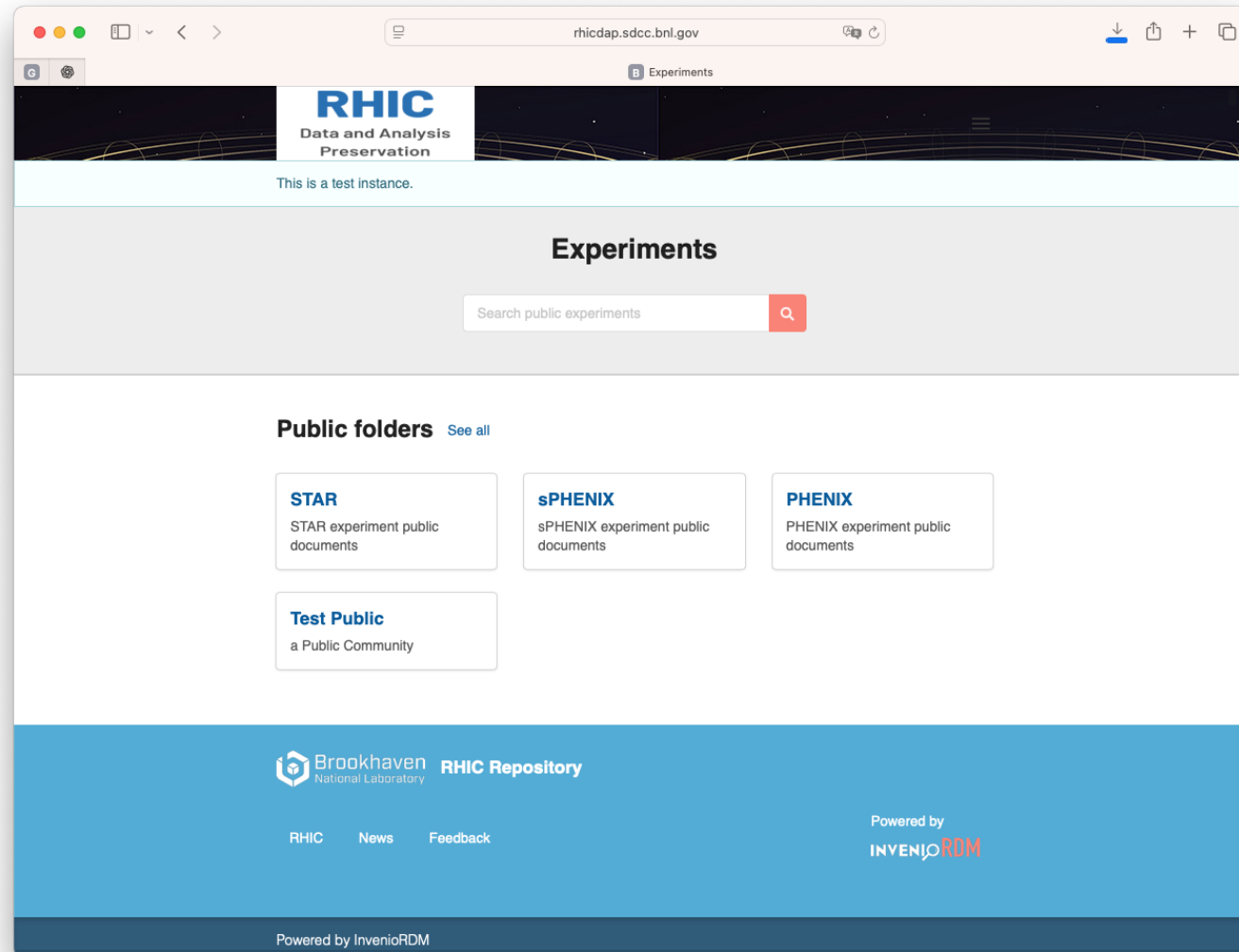
# Test RHIC Data Preservation Repository



Repository for records (notes, figures, etc.) with structured metadata

Carousel view of RHIC experiments

# Multi-experiment



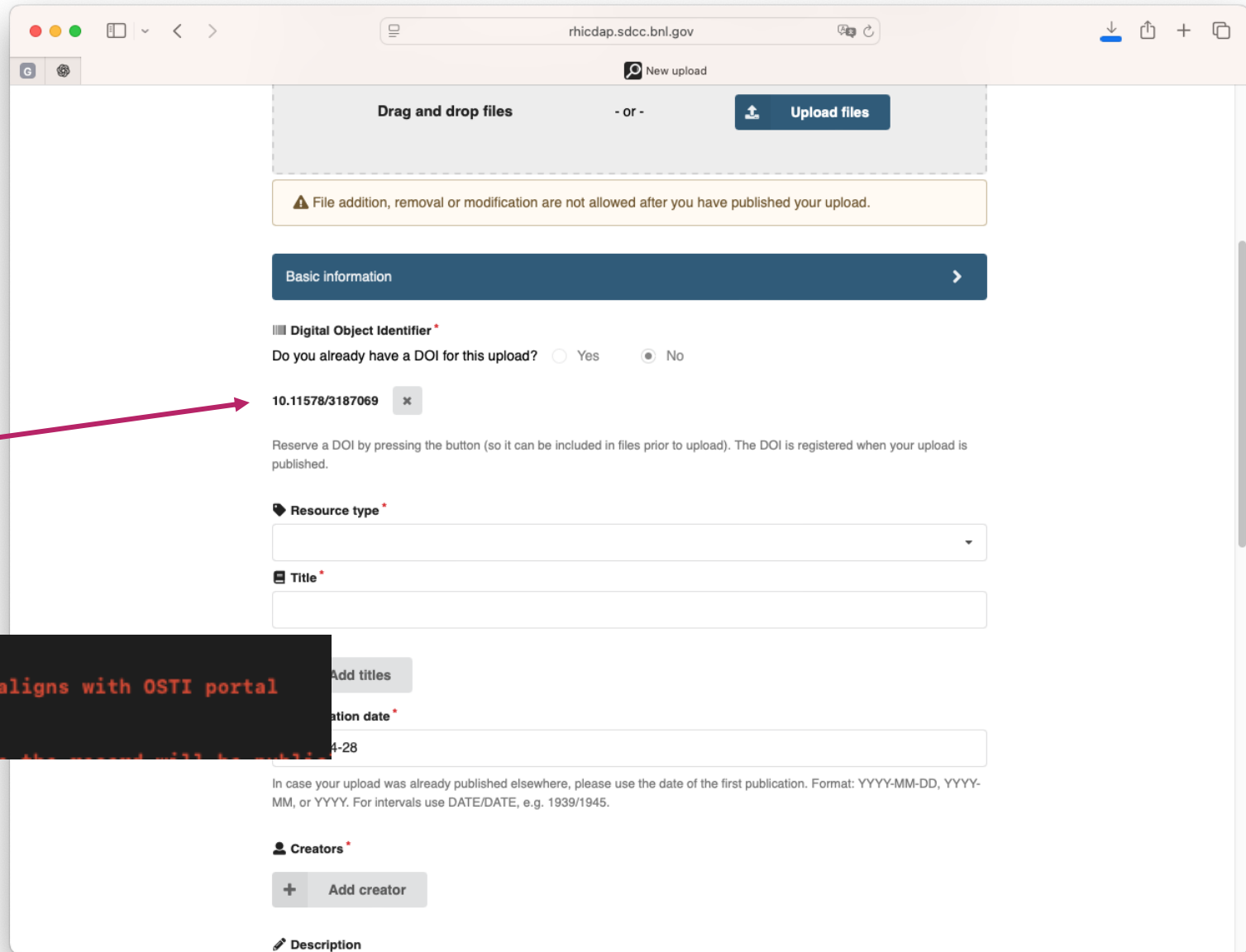
# DOIs for Public records

The screenshot shows a web browser window at the URL `rhicdap.sdcc.bnl.gov`. The page is titled "New upload" and features a file upload interface. At the top, there is a "Drag and drop files" area and an "Upload files" button. Below this is a warning message: "File addition, removal or modification are not allowed after you have published your upload." A "Basic information" section is expanded, showing a "Digital Object Identifier" section. This section asks, "Do you already have a DOI for this upload?" with radio buttons for "Yes" and "No". Below the question are two buttons: "Copy/paste your doi" and "Get a DOI now!". A note explains: "Reserve a DOI by pressing the button (so it can be included in files prior to upload). The DOI is registered when your upload is published." Other fields include "Resource type" (a dropdown menu), "Title" (a text input field), "Add titles" (a button), "Publication date" (a date input field with the value "2026-04-28"), and "Creators" (a section with an "Add creator" button). A pink arrow points from the text on the right to the "Yes" radio button.

Need a DOI for your record?  
Already have one?

# Get a DOI

OSTI DOI with RHIC prefix  
(BNL-RHIC) generated



The screenshot shows a web browser window at rhicdap.sdcc.bnl.gov. The page is titled "New upload" and features a "Drag and drop files" area with an "Upload files" button. A warning message states: "File addition, removal or modification are not allowed after you have published your upload." Below this is a "Basic information" section with a right-pointing arrow. The "Digital Object Identifier" section asks "Do you already have a DOI for this upload?" with radio buttons for "Yes" and "No". The "No" option is selected, and the DOI "10.11578/3187069" is entered in a text field. Below the DOI field is a note: "Reserve a DOI by pressing the button (so it can be included in files prior to upload). The DOI is registered when your upload is published." The "Resource type" field is a dropdown menu. The "Title" field is an empty text input. Below the title field is an "Add titles" button. The "Publication date" field contains "4-28". A note below the date field reads: "In case your upload was already published elsewhere, please use the date of the first publication. Format: YYYY-MM-DD, YYYY-MM, or YYYY. For intervals use DATE/DATE, e.g. 1939/1945." The "Creators" section has an "Add creator" button. The "Description" section is partially visible at the bottom.

```
OSTI_ACCESSION_NUMBER_PREFIX = "BNL-RHIC"
# Site information used in all OSTI submissions
OSTI_SITE_OWNERSHIP_CODE = "BNL-RHIC" # mandatory, aligns with OSTI portal
#OSTI_SITE_URL = "https://rhic-dap01.sdcc.bnl.gov/"
OSTI_SITE_URL = "https://rhicdap.sdcc.bnl.gov/"
#OSTI_SITE_URL = "https://rhicdap.sdcc.bnl.gov/" # where the record will be published
```

# Test DOIs

Currently generating test DOIs

```
# Enable OSTI DOI registration
OSTI_ENABLED = True
# Enable OSTI test mode
OSTI_TEST_MODE = True
```

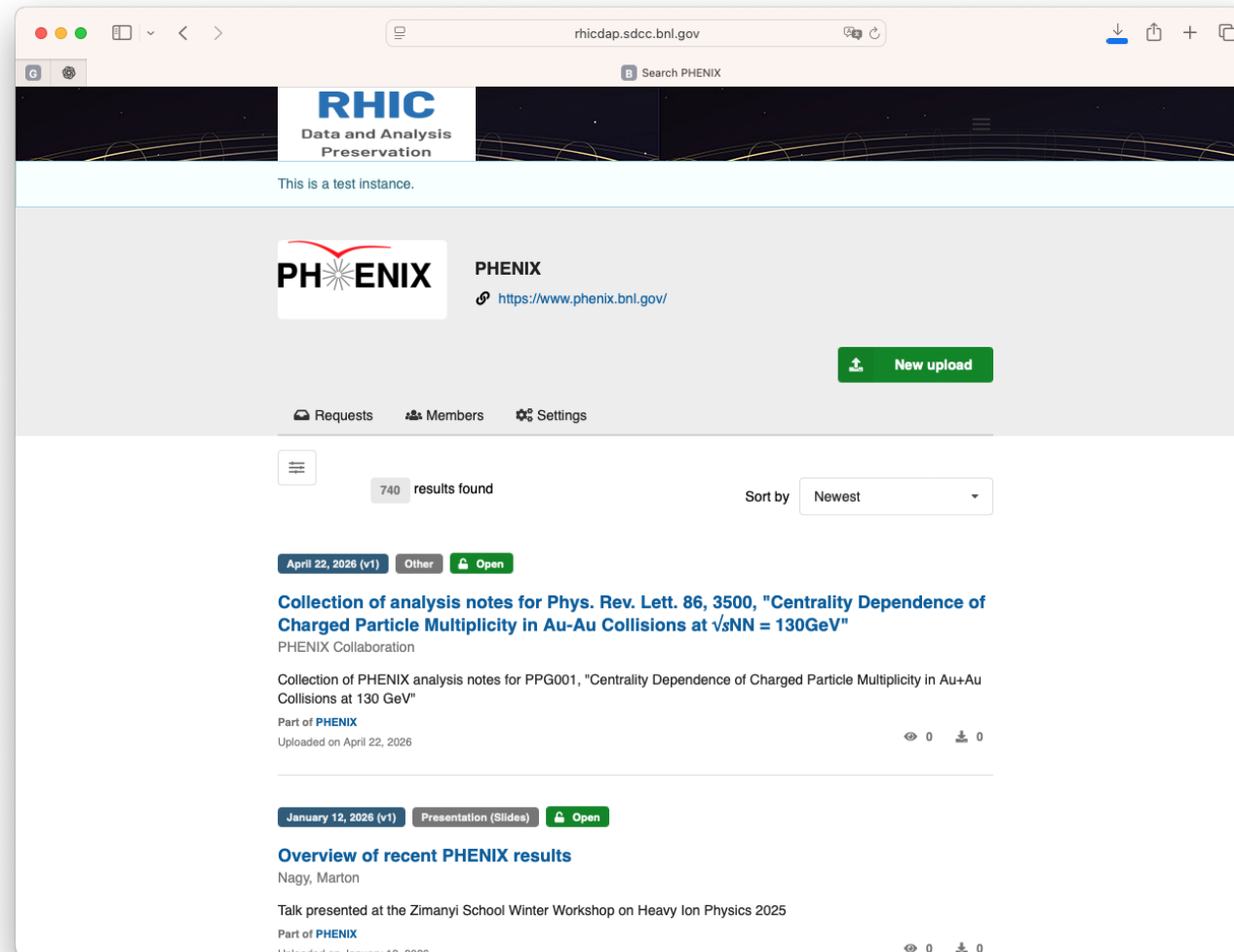
If you need to generate true DOIs please let me know

The screenshot shows a web browser window at rhicdap.sdcc.bnl.gov. The page is titled 'New upload' and features a file upload area with a 'Drag and drop files' instruction and an 'Upload files' button. Below this is a warning message: 'File addition, removal or modification are not allowed after you have published your upload.' The 'Basic information' section is expanded, showing the following fields:

- Digital Object Identifier \***: A radio button selection for 'Do you already have a DOI for this upload?' with 'Yes' and 'No' options. The 'No' option is selected. A text input field contains '10.11578/3187069' with a close button.
- Resource type \***: A dropdown menu.
- Title \***: A text input field.
- Publication date \***: A text input field containing '2026-04-28'. Below this field is a note: 'In case your upload was already published elsewhere, please use the date of the first publication. Format: YYYY-MM-DD, YYYY-MM, or YYYY. For intervals use DATE/DATE, e.g. 1939/1945.'
- Creators \***: A text input field with an 'Add creator' button.

At the bottom of the form, there is a 'Description' field with a pencil icon.

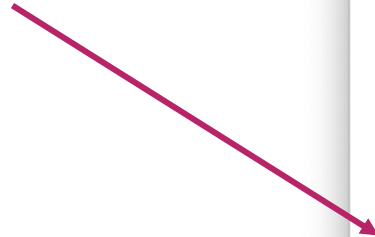
# Phenix records mirrored from Zenodo into RHIC DAP Invenio repository



Migration via Python scripts using Zenodo/Invenio APIs

# 740 records of different types

740 records of multiple resource types



The screenshot shows the PHENIX website interface. The browser address bar displays 'rhicdap.sdcc.bnl.gov'. The page features a search bar labeled 'Search PHENIX'. On the left side, there are two filter sections: 'Access status' and 'Resource types'. The 'Access status' section has a checkbox for 'Open' with a count of 740. The 'Resource types' section includes checkboxes for 'Presentation (Slides)' (518), 'Publication' (190), 'Poster' (22), 'Other' (3), 'Video' (3), 'Dataset' (2), 'Image' (1), and 'Software' (1). A red arrow points from the text '740 records of multiple resource types' to the 'Other' checkbox. The main content area shows a list of records, including a link to 'www.phenix.bnl.gov', a 'New upload' button, and a list of publications such as 'Phys. Rev. Lett. 86, 3500, "Centrality Dependence of Au-Au Collisions at  $\sqrt{s_{NN}} = 130\text{GeV}$ ".

# Details

Zenodo resource types passed to Invenio

Original DOIs preserved

Zenodo upload dates preserved

**IsIdenticalTo** declared (record is copy of original record)

Supporting Analysis Notes for PPG001 "Minimum bias multiplicity distribution at  $\sqrt{s} = 130$  A GeV using the PHENIX pad chambers"

Files (14.8 MB)

Name	Size	Download all
PHENIXPPG001AnalysisNotes.pdf <small>7a61bd74749eb0dd79a695ea7a4a44f</small>	14.8 MB	Download all

[Preview](#) [Download](#)

**Additional details**

**Related works**

Is identical to  
[10.5281/zenodo.19700912 \(DOI\)](https://doi.org/10.5281/zenodo.19700912)

**Keywords and subjects**

phenix multiplicity hadron run01

**Details**

DOI  
[DOI 10.5281/zenodo.19700912](https://doi.org/10.5281/zenodo.19700912)

Resource type  
Other

**Citation**

PHENIX Collaboration. (2026). Collection of analysis notes for Phys. Rev. Lett. 86, 3500, "Centrality Dependence of Charged Particle Multiplicity in Au-Au Collisions at  $\sqrt{s_{NN}} = 130$  GeV".  
<https://doi.org/10.5281/zenodo.19700912>

Style

# Why Mirror Zenodo Records at BNL?

## Long-term Preservation & Institutional Responsibility

Curated institutional RHIC copy at BNL

Supports DOE/funding preservation requirements

## Discovery & Domain-Specific Search

RHIC domain: experiment/run/conditions across RHIC search

Better discovery than generic repositories

## Access control

Zenodo is primarily open-access

BNL instance supports:

- restricted datasets
- collaboration-only records

While still mirroring public ones for consistency

## Metadata Integration

Can add metadata

Integrates with DAPP other catalogs, and access control systems without modification of original Zenodo records

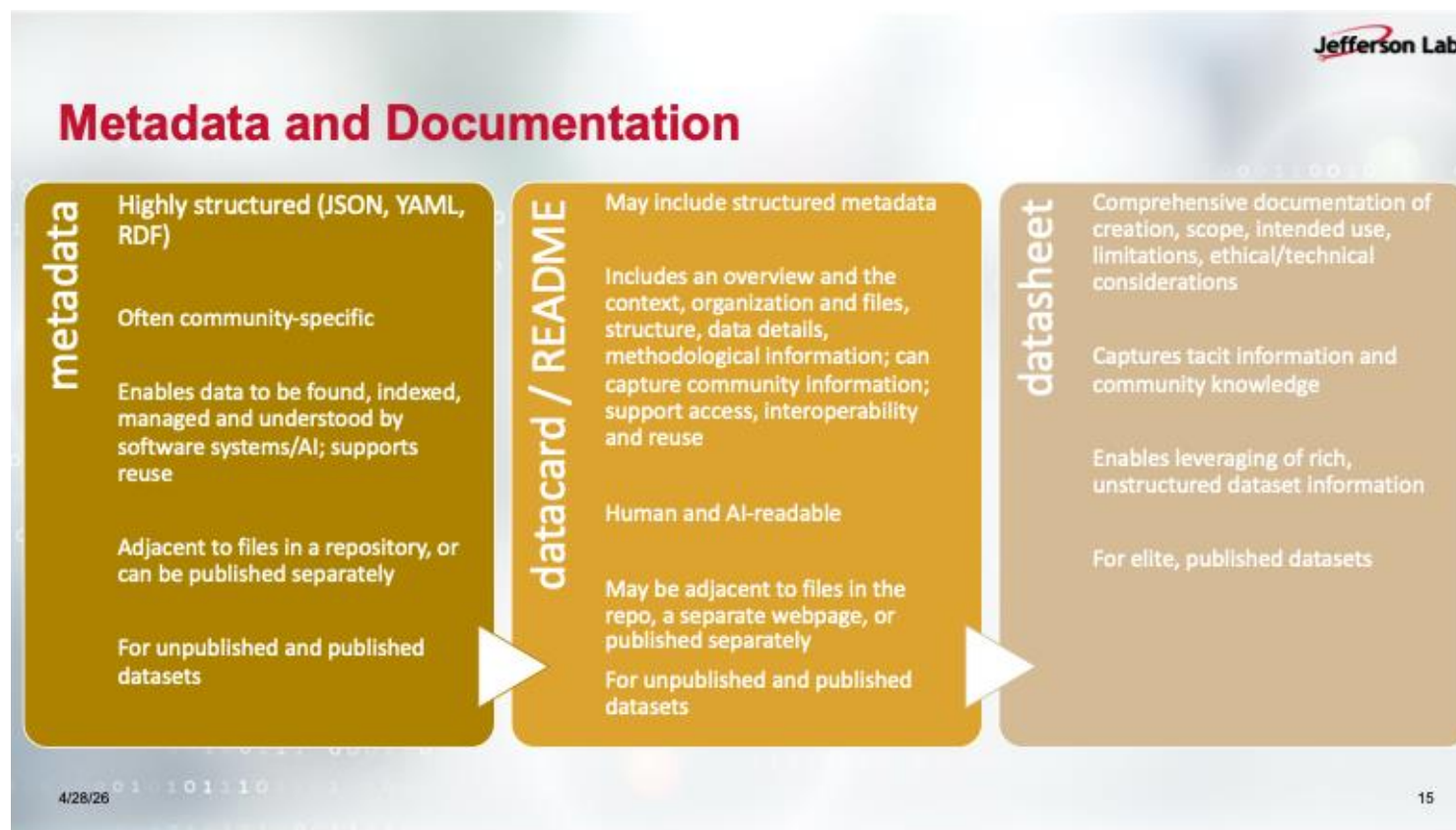
# DataSheets / DataCards - I

- Describing data for future three main **future** applications:
  1. Future scientist not part of a RHIC experiment today
  2. Education/outreach
  3. Input for AI model (AI-ready data)
- These 3 applications need complementary and overlapping set of information
- That is attaching Metadata & Data Documentation to datasets:  
DataSheets / DataCards

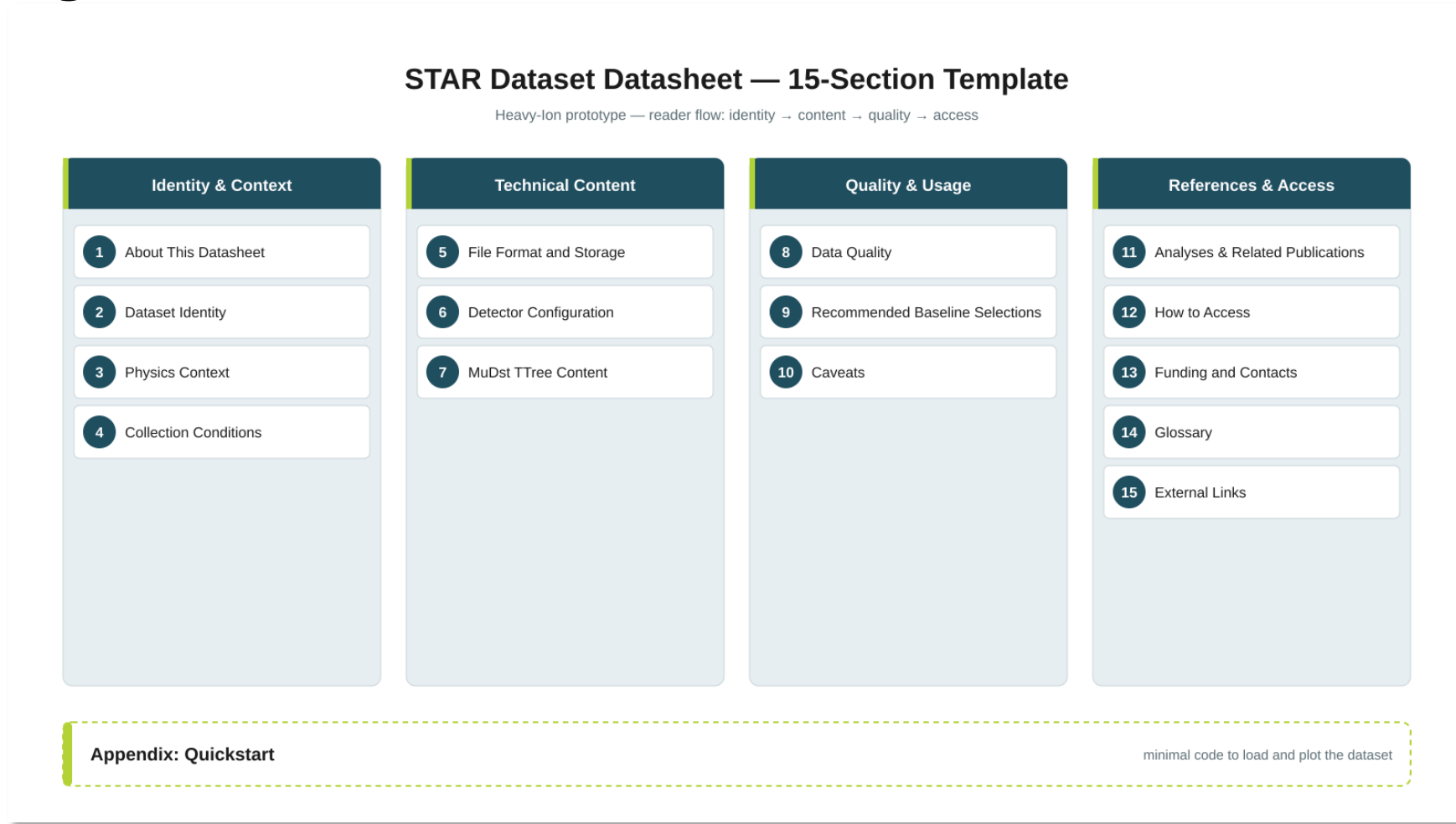
# DataSheets / DataCards - II

Diana McSpadden at <https://indico.bnl.gov/event/31760/>

ePIC User Learning Workshop: Discoverability and Reusability for the preTDR and Beyond



# Prototype of a RHIC datasheet/card



Goal: refine schema and support semi-automatic generation

# Next meeting

May 21

DataSheet(card) – Diana

[ICFA Data Life cycle panel report](#) – Kati Lassila-Perini