

# The PHENIX DAP update

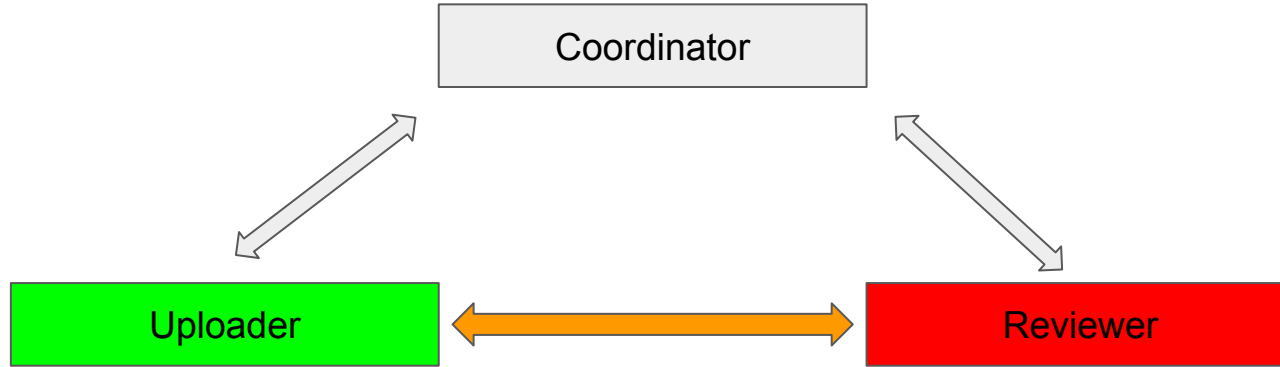
- HEPData procedures - the upload and review process

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(BNL, NPPS)  
12/21/2020

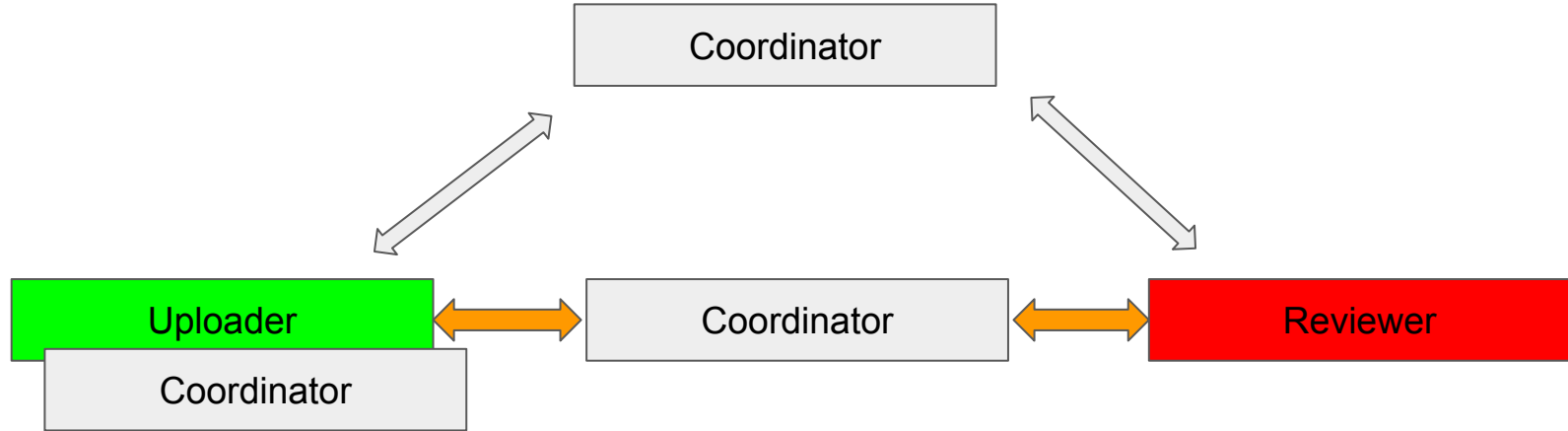
# The HEPData workflow

- Someone (e.g. a member of a PPG) prepares a submission package and tests it with the “sandbox” feature on HEPData; materials are on GitHub
- Maxim creates an entry which is tagged by the InspireHEP ID, which for now is just a placeholder; the “reviewer” and the “uploader” are specified at this time
- The uploader uses the GitHub content to create a tarball for HEPData submission
- The uploader uploads the materials (until now this was usually Maxim)
- The reviewer reviews every item within the submission, and (optionally) leaves comments
- The uploader makes fixes and re-uploads, repeating the loop
- When all is checked and considered OK, Maxim finalizes the item
- It becomes public

# The HEPData workflow - canonical



# The HEPData workflow - current process



# The problem

- If a submission is 100% correct the review process is just a formality
  - So the coordinator can do it all - this was what we did in Summer 2020
- As we started the HEPData effort in earnest this is often not the case
  - Complex submissions with many elements are created
  - Errors of all kinds are unavoidable
- If the upload duty is assigned to the coordinator he needs to relay all the information from the reviewer to the uploader for corrections
  - This can be a lot of info
- The HEPData site is designed to support direct communication between the uploader and the reviewer as “chat” on the webpage of the submission
- If the coordinator is in the loop this chat must be copy-pasted into e-mail
- Actually makes it harder for the uploader to take action

# Example

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### Table 1

Data from Tables I and II of  $J/\psi$  suppression at forward rapidity in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV (PRC 84, 054192)

$J/\psi$  invariant yield in Au+Au collisions as a function of  $N_{part}$  at forward rapidity ( $y_F$  integrated). The statistical and systematic...

[To be reviewed](#)

### Table 1

10.17182/hepdata.100086.v1.t1

Data from Tables I and II of  $J/\psi$  suppression at forward rapidity in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV (PRC 84, 054192)

$J/\psi$  invariant yield in Au+Au collisions as a function of  $N_{part}$  at forward rapidity ( $y_F$  integrated). The statistical and systematic...

[To be reviewed](#)

### Table 2

Data from Fig. 2 of PRC 84, 054192

10.17182/hepdata.100086.v1.t2

$J/\psi$  nuclear modification in Au+Au collisions as a function of  $N_{part}$  at forward rapidity ( $y_F$  integrated). The statistical and systematic...

[To be reviewed](#)

### Table 2

10.17182/hepdata.100086.v1.t2

$J/\psi$  nuclear modification in Au+Au collisions as a function of  $N_{part}$  at forward rapidity ( $y_F$  integrated). The statistical and systematic...

[To be reviewed](#)

### Table 3

Data from Tables I and III of PRC 84, 054192

10.17182/hepdata.100086.v1.t3

$J/\psi$  invariant yield in Au+Au collisions as a function of transverse momentum for the 0-20% centrality class at forward rapidity...

[To be reviewed](#)

### Table 3

10.17182/hepdata.100086.v1.t3

$J/\psi$  invariant yield in Au+Au collisions as a function of transverse momentum for the 0-20% centrality class at forward rapidity...

[To be reviewed](#)

### Table 4

Data from Tables I and III of PRC 84, 054192

10.17182/hepdata.100086.v1.t4

$J/\psi$  invariant yield in Au+Au collisions as a function of transverse momentum for the 20-40, 40-60 and 60-92% centrality classes...

[To be reviewed](#)

### Table 4

10.17182/hepdata.100086.v1.t4

$J/\psi$  invariant yield in Au+Au collisions as a function of transverse momentum for the 20-40, 40-60 and 60-92% centrality classes...

[To be reviewed](#)

### Table 5

Data from Fig. 3 of PRC 84, 054192

10.17182/hepdata.100086.v1.t5

$J/\psi$  nuclear modification in Au+Au collisions as a function of transverse momentum for the 0-20% centrality class at forward rapidity...

[To be reviewed](#)

### Table 5

10.17182/hepdata.100086.v1.t5

$J/\psi$  nuclear modification in Au+Au collisions as a function of transverse momentum for the 0-20% centrality class at forward rapidity...

[To be reviewed](#)

### Table 1

10.17182/hepdata.100086.v1.t1

Data from Tables I and II of  $J/\psi$  suppression at forward rapidity in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV (PRC 84, 054192)

$J/\psi$  invariant yield in Au+Au collisions as a function of  $N_{part}$  at forward rapidity ( $y_F$  integrated). The statistical and systematic uncertainties vary point-to-point and are listed for each measured value. An additional global systematic uncertainty is provided in each column heading, which applies to all data points per column.

**cmenergies**  
 200.0

**observables**  
 INV\_YIELD

**phrases**  
 J/psi Inclusive Muon Production Centrality

**reactions**  
 J/psi

	$B_{NN} dN/dy$ ( $1.2 <  y  < 2.2$ )
$\langle N_{part} \rangle$	(global sys. err. 10.7%)
5.6	3.43e-06 ± 2.32e-07 stat ± 2.32e-07 x exp ± 2.29e-07 y yyy
11.2	6.79e-06 ± 7.04e-07 stat ± 6.09e-07 x exp ± 5.09e-07 y yyy
16.1	9.49e-06 ± 8.61e-07 stat ± 7.22e-07 x exp ± 7.22e-07 y yyy
22.6	1.17e-05 ± 1.04e-06 stat ± 8.32e-07 x exp ± 8.32e-07 y yyy
30.8	1.64e-05 ± 1.39e-06 stat ± 8.12e-06 x exp ± 1.22e-05 y yyy
41.0	2.85e-05 ± 1.79e-06 stat ± 12.12e-06 x exp ± 1.22e-05 y yyy
53.2	2.76e-05 ± 2.22e-06 stat ± 8.12e-06 x exp ± 1.22e-05 y yyy
67.7	3.49e-05 ± 2.33e-06 stat ± 8.02e-06 x exp ± 1.02e-05 y yyy
84.6	5.07e-05 ± 3.94e-06 stat ± 8.32e-06 x exp ± 1.02e-05 y yyy
104.2	5.43e-05 ± 4.74e-06 stat ± 8.18e-06 x exp ± 1.02e-05 y yyy
126.8	6.14e-05 ± 5.34e-06 stat ± 8.48e-06 x exp ± 1.02e-05 y yyy
152.7	7.85e-05 ± 7.31e-06 stat ± 8.42e-06 x exp ± 1.02e-05 y yyy
182.4	7.11e-05 ± 6.03e-06 stat ± 8.32e-06 x exp ± 1.02e-05 y yyy

### Visualize

Sum errors ☒ Log Scale (X) ☐ Log Scale (Y) ☐

Deselect variables or hide different error bars by clicking on them.

### Variables

(global sys. err. 10.7%)  
 $B_{NN} dN/dy$  ( $1.2 < |y| < 2.2$ )  
 Summed error

### Review Summary

**Todo** **Attention Required** **Passed**

Table Clr, Attention Required Clr, Passed Clr = 2

### Conversation

2020-12-11 at 00:16:20 UTC  
[mailto:10.17182/hepdata.100086.v1.t1](#)  
 Journal page number should be 054192, not 054192.

2020-12-11 at 04:25:34 UTC  
[mailto:10.17182/hepdata.100086.v1.t1](#)  
 What sort of labels are available for the

Send feedback on this data...

[Send Feedback](#)

# Example of the comments

2020-12-11 at 05:18:53 UTC

[matthew.g.wysocki@gmail.com](mailto:matthew.g.wysocki@gmail.com)

Journal page number should be 054912, not 054192.

2020-12-11 at 05:11:51 UTC

[matthew.g.wysocki@gmail.com](mailto:matthew.g.wysocki@gmail.com)

Why is this table separate from Table 4 (which is just different centralities?)

2020-12-11 at 05:11:16 UTC

[matthew.g.wysocki@gmail.com](mailto:matthew.g.wysocki@gmail.com)

The 5-6 and 6-7 GeV/c bins are missing (which are 90% CLUL)

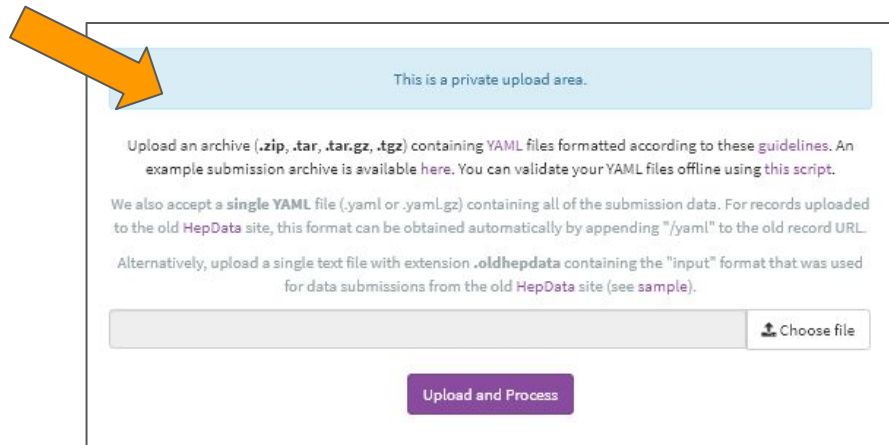
2020-12-11 at 05:10:29 UTC

[matthew.g.wysocki@gmail.com](mailto:matthew.g.wysocki@gmail.com)

Again, the stat column is actually statistical and type A systematics combined.

# Chat vs mail

- PPG doing the upload vs coordinator doing the upload
- Chat allows for interactive discussion
- We could just also switch to direct communication between the reviewer and the designated member of the PPG
- Cost/benefit of the PPG doing the upload - what is the extra workload on the PPG? Considering they need to use the “sandbox” under any scenario, it is not much. The upload itself is trivial
- Opinions?



This is a private upload area.

Upload an archive (.zip, .tar, .tar.gz, .tgz) containing YAML files formatted according to these [guidelines](#). An example submission archive is available [here](#). You can validate your YAML files offline using [this script](#).

We also accept a single YAML file (.yaml or .yaml.gz) containing all of the submission data. For records uploaded to the old [HepData](#) site, this format can be obtained automatically by appending "/yaml" to the old record URL.

Alternatively, upload a single text file with extension .oldhepdata containing the "input" format that was used for data submissions from the old [HepData](#) site (see [sample](#)).

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