



# Management-Conveners' Meeting

STAR Collaboration Meeting

January 2016

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# Agenda

1. Paper Status
2. Paper Proposal Status
3. Production Priorities
4. PWG Convener Rotations
5. Miscellaneous
  1. PicoDST format
  2. Presentation Approval Process
  3. HepDATA
6. AOB

# 1. Paper Status (1)

- **Active GPC** <http://www.star.bnl.gov/protected/common/GPCs/gpc-active.xml>
  - 17+2 (19) active GPCs
  - 8+2 (5) w/o collaboration review
  - 2 (5) in collaboration review
  - 7+1(RHIC) (9) w/ journal review
    - no feedback from journal: 1+2(rhic) (1)
    - comments received, working on resubmission: 3 (2)
    - resubmitted: - (2)
    - comments received, alternative submission plans:1 (4)
- **Paper plans in PWGs**  
<https://drupal.star.bnl.gov/STAR/blog/geurts/pwgc-paper-proposal-status-january-2016>

# 2. Paper Plans in PWGs: Previewed (2)

date	pwg	title/url
May 14, 2013	Heavy	<a href="#">NPE production and <math>v_2</math> in Au+Au@200GeV</a>
Mar. 18, 2014	LFS	<a href="#">R<sub>CP</sub> in BES</a>
Nov. 18, 2014	BulkCorr	<a href="#">v<sub>1</sub> for kaons in BES</a>
May 5, 2015	Spin	<a href="#">γ-jet cross sections pp@200GeV</a>
May 26, 2015	LFS	<a href="#">strangeness in BES</a>
June 23, 2015	Spin	<a href="#">inclusive jet cross-section in pp@200GeV</a>
Oct. 6, 2015	UPC	<a href="#">Coherent Diffraction of rho mesons</a>
Oct.27, 2015	Heavy	<a href="#">D<sup>0</sup> and D* Production in pp@500GeV</a>
Nov.3, 2015	Spin	<a href="#">2011 IFF in pp@500GeV</a>
Dec. 8, 2015	Heavy	<a href="#">D<sup>0</sup> v<sub>2</sub> in Au+Au@200GeV (HFT)</a>
Jan.5, 2016	BulkCorr	<a href="#">Three-particle harmonic decomposition</a>
Jan.12, 2016	LFS	<a href="#">BES Dielectron</a>

**Distributions:**

12 (15) previewed proposals

BC:2(2) HF:3(3) JC:0(1) LFS:3(5) Sp:3(4)

>12m: 3(3)

6-12m: 3(5)

<6m: 6(7)

# 2. Paper Plans, pending preview (3)

PWG	
Heavy Flavor	D-hadron correlations from Run11 p+p 500 GeV
(14)	D meson from Run12 p+p 200 GeV
	D meson from Run12 U+U 193 GeV
	HFT: D meson $R_{AA}$ from Run14 Au+Au 200 GeV (timescale?)
	HFT: $D_S$ $R_{AA}$ from Run14 Au+Au 200 GeV
	NPE production from Run9 p+p 200 GeV
	NPE-hadron correlation from Run12 p+p 200 GeV
	NPE $R_{AA}$ from Run12 U+U 193 GeV
	J/ $\psi$ polarization from Run11 p+p 500 GeV
	J/ $\psi$ production from Run11 p+p 500 GeV
	J/ $\psi$ -hadron correlation from Run12 p+p 200 GeV
	MTD: J/ $\psi$ $R_{AA}$ , $v_2$ and Y from Run14 Au+Au 200 GeV
	J/ $\psi$ yield vs event activity from Run11 and Run13 p+p 500 GeV (MTD)
	J/ $\psi$ RAA from U+U@193GeV

# 2. Paper Plans, pending preview (4)

PWG	
BulkCorr (2)	Charge-dependent Directed Flow in Cu+Au Collisions Anisotropic collective flow in Cu+Au collisions
BC/LFS	4.5GeV Au+Au FXT
LFS (7)	<b>BES pion rapidity</b> FXT in <a href="#">Au+Au@4.5</a> and Au+Al@4.9 <b>Deuteron production and <math>B_2</math> in BES</b> Hypertriton 2-body and 3-body <b>Spectra &amp; flow in 14.5GeV</b> Dielectron in U+U and p+p in run12 $\Xi(1530)$ in pp@200
UPC	Coherent diffractive photo-production of rho mesons

## 2. Paper Plans, pending preview (4)

PWG	
JetCorr	Inclusive charged jets in Au+Au@200GeV
	Hadron-triggered charged jets in 200GeV
	Hadron-triggered charged jets in 62GeV
	$\gamma_T$ - $\gamma_T$ correlations (run-4 Au+Au)
	PID correlations in Au+Au
Spin	2011 IFF at 500GeV
	Forward neutral pion $A_{LL}$ at 500GeV
	2011-2013 W cross section ratio (?)
	Forward jet-like single-spin asymmetries at 500GeV (?)
	2012 Collins asymmetries in 200GeV (?)
	2012 IFF at 200GeV (?)

# 2. Paper Plans: BES Phase-1

BES Phase-1 Plans, incl. integration of 14.5GeV results

– *cf.* BES/14.5GeV focus meetings

- Kaon  $v_1$  in BES (Yadav)
- ✓ long identified particle  $v_2$  paper (Shusu)
- $R_{CP}$  charged & identified hadrons (Steve)
- BES  $\pi/K/p$  spectra paper
- BES strangeness paper

## 2. Paper Plans: HFT/MTD

### ➤ First papers from the new detector upgrades

PWGC Preview done

- HFT:  $D^0$   $v_2$  in Au+Au – PWGC preview done.
  - current status?

Pending PWGC preview – timelines?

- HFT: D meson  $R_{AA}$  from Run14 Au+Au 200 GeV
- HFT:  $D_S$   $R_{AA}$  from Run14 Au+Au 200 GeV
- MTD:  $J/\psi$   $R_{AA}$ ,  $v_2$  and Y from Run14 Au+Au 200 GeV
- MTD:  $J/\psi$  yield vs event activity from Run13 (and Run 11) p+p 500 GeV

# 3. Production Priorities (1)

## Production Priorities – Fall 2015

### Input from PWGs

#### — HF

Run 14

1. Au+Au HFT
2. Au+Au MTD
3. Au+Au BHT AuAu\_200\_production\_high\_2014\_st\_physics data stream
- 4) HFT with SSD readout reproduction

Run 15

- 5) p+p HFT and MTD (st\_mtd w/ HFT readout, st\_physics, and st\_ssddb)
- 6) p+Au (ditto)

#### — Spin

Run 15

1. FMS stream
  - pp-trans
  - p+Au
  - p+Al
  - pp-long
2. p+A full stream
3. pp-trans, pp-long full stream

#### — UPC

Run 15

1. p+p :: rp-stream
2. p+Au and p+Al ;; rp-stream

#### — LFS

FXT data samples

1. Au+Au at 4.5.
  2. Au+Al at 4.9.
- Run 15 (streams TBD, but likely st\_physics and st\_mtd)
3. p+Au at 200
  4. p+p at 200
  5. p+Al at 200

## Production Priorities – Fall 2015

#### — BulkCorr

FXT data samples

1. Au+Au at 4.5.
  2. Au+Al at 4.9.
- No feedback yet on 3He+Au and Cu+Au reproduction

#### — JetCorr

1. Run 15: p+A and p+p high TOF multiplicity data

## Sources

### BulkCorr:

<http://www.star.bnl.gov/HyperNews-star/protected/get/starpgc/4085/1.html>

no updates since on 3He+Au or Cu+Au reproductions, or high-mult. pp/pA from run15

### HF:

[https://drupal.star.bnl.gov/STAR/system/files/HFPrority\\_20151015.docx](https://drupal.star.bnl.gov/STAR/system/files/HFPrority_20151015.docx)

### JetCorr:

run 15 pA (pp) high multiplicity

### LFS

<http://www.star.bnl.gov/HyperNews-star/protected/get/lfspectra/2820.html>

### Spin:

<https://drupal.star.bnl.gov/STAR/system/files/ProductionPriorities2015.v0.pdf>

### UPC:

<https://drupal.star.bnl.gov/STAR/system/files/RPdataProcessing.pdf>

# 3. Production Priorities (2)

<http://www.star.bnl.gov/protected/common/PAC/Run15/ProductionPrioritiesFall2015.pdf>

## Production Priorities – Fall 2015

Considerations  
Input from S&C and PWGs Motivations  
Proposed priorities

### Production Priorities

Considerations  
Fast track Run-14 Au+Au at 200GeV HFT-based publications (st\_physics stream)  
MTD performance feedback ahead of Run-16, based on Run-14 Au+Au data (st\_mtd stream)  
J/psi and Upsilon based on MTD, estimates of backgrounds and publications  
Spin White Paper: Input from Run-15 FMS data in p+p and p+A (FMS stream)  
Roman Pot data sets from Run-15 p+p and p+A collisions (RP stream)  
Run-15 p+p and p+A reference data sets for Run-14  $R_{AA}$  measurements (st\_physics)

[Input from S&C and PWGs](#)  
PWGs  
Summary at  
<https://drupal.star.bnl.gov/STAR/blog/geurts/production-priorities-fall-2015h>  
S&C  
Run-14 production priorities at  
<https://drupal.star.bnl.gov/STAR/blog/jeromel/production-priorities-run-14-and-beyond-revisit-201503>  
(post-edit: the st\_physics stream has been finished)  
Run-15 readiness, including production estimates at  
<https://drupal.star.bnl.gov/STAR/blog/jeromel/status-production-readiness-run-15>

## Production Priorities – Fall 2015

### Motivations

While the PWG priorities list a rather wide range of data sets from two run periods, the main focus for the production of the past year has been on the Run-14 Au+Au at 200GeV. This is mostly driven by HFT and MTD related physics with more resources geared towards the st\_physics (HFT) production when compared with st\_mtd (MTD) production. The st\_physics production is expected to be finished in November 2015, while the st\_mtd production, assuming 100% committed resources, will continue until March 2016. The results from the MTD production is highly relevant in order to understand the performance of this detector ahead of Run 16. While the completion of the full data set will not be ready in time, a significant fraction of the production is expected to be ready by January 2016. In terms of immediate priorities, it is important that the PAs of the Spin WP can include first preliminary results from the FMS detector. The time scale for this is December 2015. Considering the urgency of this input to the WP, STAR management has assigned an immediate top priority to the Run-15 transverse p+p data, and specifically the FMS data stream. While other collision systems in this data set (p+Au, p+Al, and longitudinal p+p) could be produced in a relatively short time span, the remaining priorities will be discussed in a follow-up. That includes the Run-15 RP stream (UPC), the Run-15 p+p and p+Au streams that include the HFT and MTD subsystems (HF, LFS, JetCorr) as well as the fixed-target productions (LFS, BulkCorr).

### Proposed immediate priorities

Run-15 p+p<sub>trans</sub>, p+Au, and p+p<sub>long</sub> for FMS stream  
Run-14 st\_mtd stream  
Follow-up (no particular order)  
Run-15 RP stream  
Run-15 p+Al.  
Run-15 p+p and p+A HFT and MTD  
Fixed target production of Au+Au at 4.5GeV and Au+Al and 4.9GeV

time to revisit ...

# 4. PWG Convener Rotations

- Typical tour of duty 2-3yrs
  - Some have served (much) longer
- Expect in the next months a few rotations
  - bring in new, young colleagues
  - while maintaining continuity
- A good opportunity to remind/define what it means to be a PWG convener
  - a lot (perhaps too much) goes by “on-the-job education”

# 5. picoDST format

- consolidate a picoDST format that is to a reasonable extent of use across all PWGs

Details on format, how-to-use, etc. see Mustafa's presentation this afternoon.

Proposed follow-up

- What content do PWGs need? What is missing? E.g., can jet trees be generated from picoDSTs?
- Support structures (dedicated coordinator, documentation, mailing list, etc.)

# 5. Presentation Approval Process

Collaboration between PAC, STC, and Jerome

“one step at a time”

**Step #1:** improve upload of talks to drupal

**Approach:** involve the drupal interface as part of the PAC approval. In other words, we will request presenters to upload their file(s) when we approve the talk in startalks-hn

**Modifications** that will help:

Block presentations from public view until the conference day (using STAR’s “protected” environment)

Work in progress, but we can roll out this change

What we need from the conveners at this stage:

- Your feedback!
- Otherwise, not much: this is mostly at the PAC level
- But, please continue to keep track of talks actually getting posted

# 5. HepData

## *a.k.a. The Durham HepData Project*

<http://hepdata.cedar.ac.uk/>

- built up over the past four decades as a unique open-access repository
- has all published LHC particle and heavy-ion data
- transition to new HEPData site: [hepdata.net](http://hepdata.net)
  - Based on Invenio, developed in collaboration with INSPIRE and hosted at CERN
  - likely will lead to some minor changes in the upload protocol
- HEPdata team is enthusiastically looking forward to increase the number STAR papers (6?) that it currently appears to have in its database
- Nick Luttrell (Rice) is looking into defining simple templates to enable easy upload
  - First tests are very encouraging
  - However, quoting Nick: *“Regarding uploading the backlog of existing publications, I'm more confident than ever that it can't be cleanly automated. Even if I find a way to handle all the different data formats, we would sacrifice a great deal of the useful metadata to get there.”*
  - Outcome: proposal for a more uniform presentation of STAR data which involves adding some metadata (most of it can be extracted from INSPIRE, others –like captions and labels- need to be added by hand)

# AOB

- Feedback from Conveners ...
- Feedback from Management ...

PWG Feedback

**SPIN**

# Spin-PWG Analyses

## Analyses Near GPC

The following is a list and description of analyses which are likely to request a GPC within the next 6-12 months.

### 2011 IFF at 500 GeV

This analysis utilizes the same data set (2011 p+p at  $s = 500$  GeV) as the 2011 Collins measurement, already in GPC. The data are well-understood; and the analysis is quite mature, having already completed a PWGC preview. The largest remaining analysis-related issue is the pion contamination estimate, an issue raised during the preview. The question is also relevant for the 2011 Collins result, and a path forward has been developed. The methodology has been presented multiple times to the Spin-PWG and in Jet-finding meetings. The preliminary results from this investigation have largely confirmed the existing estimates for the high- $p_T$  data (the data with greatest impact) with only lower-momentum tracks requiring a change. These changes will not affect the message or impact of the results.

The most complicated factor for the 2011 IFF analysis is that the lead analyst, Mike Skoby, has moved on from his postdoc position at IU. Nevertheless, the IFF asymmetries are also being analyzed in the 2012 dataset and remain a high priority for the 2015 and (requested) 2017 datasets. So, the 2011 analysis will not be abandoned and the expertise is in-place to bring the 2011 result to final status. Assuming Mike's continued involvement, we estimate a GPC request within 2-3 months.

## [Analyses Near GPC ]

### Forward Neutral Pion Longitudinal Double-spin Asymmetries at 500 GeV

This analysis utilizes a combination of the 2012 and 2013 longitudinal-spin datasets at 500 GeV. It represents the first opportunity for a publication from the large 2013 dataset. The analysis is nearing completion. Weekly presentations are given to the FMS group, typically by Chris Dilks from PSU. The final major tasks needed are to finalize systematics related to luminosity, polarization, and energy-scale. Last week, Chris Dilks presented to the FMS group an update of the systematic from residual transverse polarization. The conclusion was that this would be a negligible-to-subdominant systematic uncertainty compared to that from the relative luminosity. This presentation suggested that analysis of these uncertainties are nearly complete. The largest of the remaining task, then, is quantifying energy-scale-related uncertainties, e.g. gain calibrations. The preliminary result handled these in a very simplistic way, and that needs to be addressed before the GPC is requested. We estimate this will take between a few weeks and a month, depending on the results of the study. Since this result combines two different datasets, the systematics study will have to be performed separately for each dataset, to account for year-to-year difference in detector performance. While this may cause a slight delay in the time to completion, we do not anticipate significant complications.

The forward ALL analysis has not had a PWGC preview. The PAs would like to complete the aforementioned analysis tasks before requesting such a meeting. Stephen Trentalange has written a paper draft that has been circulated to the FMS group. The target journal is likely to be PRD-Rapid Communication. The FMS group has also been working to finalize theory predictions, necessary for the paper. These appear to be in good shape and should not be an obstacle for moving the paper forward. We estimate that a PWGC preview will be requested in 1-2 months.

Spin PWG – Paper Status (2)

## Other Active Analyses

The following is a list of analyses that, while active, we are not ready to claim near to a GPC. In many cases, the analyses are mature but lack a significant undertaking, e.g. a large simulation sample. This list should not be interpreted as a critique of the effort or priority of these analyses. It is simply our best assessment of the current status, at this time, something that is undoubtedly subject to change.

### 2009 Inclusive Jet Cross Section

This analysis has already had a PWGC preview and is quite mature. Its largest obstacle is that the lead analyst, Xuan Li, has moved on from her position at Temple (currently at LANL). Due in part to this, we have not had as frequent analysis updates for this result, though one is scheduled for the collaboration meeting.

### 2011-2013 W Cross Section Ratio

This analysis has not yet had a PWGC preview. The biggest obstacle, as we see it, is the 2013 BEMC calibration, which is needed for this result. We have had a recent update on the calibration; and we are hopeful that a path forward can be established, soon. There will also be further dedicated discussion on this at the collaboration meeting.

### 2011 Forward Jet-like Transverse Single-spin Asymmetries at 500 GeV

This analysis is another that is quite mature, but has not had a PWGC preview. The biggest remaining obstacle is a large simulation sample. This has been actively discussed in the FMS group, and they are nearing a completed proposal. The proposal will then need to be discussed in the full Spin-PWG.

### 2012 Collins Asymmetries at 200 GeV

The 2012 Collins analysis is quite mature but not ready for PWGC preview. The largest remaining obstacles are the aforementioned pion contamination estimates and a large simulation sample. The proposal for this sample has been vetted by the Spin-PWG and the request is in the queue.

### 2012 IFF at 200 GeV

The 2012 IFF is largely in the same position as the Collins result.

PWG Feedback

**JETCOR**

# Upcoming JetCorr Papers

- Upcoming Jetcorr Papers (Analyses with expected PWGC paper preview in the next 6-12 months)
- Inclusive Charged Jets in 200 GeV Au+Au Collisions – Jan Rusnak and Jana Bielcikova - estimate of 1-2 months
- Hadron-Triggered Charged Jets in 200 GeV Au+Au – Alex Schmah and Peter Jacobs – estimate of 1-2 months
- Hadron-Triggered Charged Jets in 62 GeV Au+Au – Jinlong Zhang and Alex Schmah – estimate of 4 months
- Run-4 Au+Au  $y_T$ - $y_T$  correlations – Lanny Ray – estimate of 4 months
- PID's Correlations in Au+Au – Prabhat Bhattarai, Lanny Ray, and Elizabeth Oldag – estimate of 10-12 months

PWG Feedback

# **HEAVY FLAVOR**

# Heavy Flavor papers: status

XXX: analyses that may request PWGC preview or GPC in 6-12 months

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PWGC preview done, no GPC request yet

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1. D0 v2 from Run14 Au+Au 200 GeV with HFT (Hao/Liang/others) -XXX- ZY: paper draft and AN being circulated in HF PWG. May request GPC in <1 month
2. D meson production from Run11 p+p 500GeV (David) -XXX- PA: AN ready, paper draft ready in 2-4 weeks. May req GPC request in 2-3 months.
3. NPE R\_AA from Run10 Au+Au 200 GeV (Wei Xie/Wenqin/others) -XXX- ZY: paper draft and AN being worked on. Need to decide on the pp reference between (9) and (10). GPC request in 3-4 months.

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Preliminary results approved, no PWGC preview yet

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4. D-hadron correlations from Run11 p+p 500 GeV (Long Ma) -XXX- PA: finalizing this analysis for systematic uncertainty estimation within a couple of weeks. May request PWGC preview in 1 month.
5. D meson from Run12 p+p 200 GeV (Mustafa/Hao)
6. D meson from Run12 U+U 193 GeV (Zhenyu) -XXX- PA: preparing paper proposal. May request a PWGC preview in 3 months, and GPC in 6 months.
7. D meson R\_AA from Run14 Au+Au 200 GeV with HFT (many people) ZY: Need reliable way to estimate reconstruction efficiency at low pT and periperal collisions. HFT embedding may be required. Timescale for PWGC preview unclear.

8. Ds R\_AA from Run14 Au+Au 200 GeV with HFT (Nasim) -XXX-  
PA: won't have time till March to start working on the analysis again. May request a PWGC preview in 8-12 months  
ZY: Need reliable way to estimate reconstruction efficiency at low pT and periperal collisions. HFT embedding may be required.
9. NPE production from Run9 p+p 200 GeV (Olga) PA: AN is ready. Need to check consistency with (10) Run12 results. May combine with Run12 as the pp reference for (3).
10. NPE production from Run12 p+p 200 GeV (Xiaozhi/Shenghui)  
PA: Finalizing the analysis and perform consistency checks with measured D0 spectrum. May serve as the pp reference for (3).
11. NPE-hadron correlation from Run12 p+p 200 GeV (Zach) -XXX-  
PA: Need to study dependence on MC generators. May combine with (21) for a paper proposal? May request a PWGC preview in 6 months
12. NPE R\_AA from Run12 U+U 193 GeV (Katarina) -XXX- PA: working on centrality selection and reweighting of 0-5% U+U collisions. May request a PWGC preview in 6 months.
13. Jpsi production from Run11 p+p 500 GeV (Qian) -XXX-  
PA: Will combine with (24, 28, 29) for a paper proposal. May request a PWGC preview in 6-12 months
14. Jpsi polarization from Run11 p+p 500 GeV (Barbara) -XXX-  
PA: start working on it again. May request a PWGC preview in one month, and GPC in 6 months.

15. Jpsi-hadron correlation from Run12 p+p 200 GeV (Bingchu) -XXX-  
 PA: Need to study dependence on MC generators. Will combine with (25, 26) for a paper proposal. May request a PWGC preview in 6 months.
16. Jpsi yield vs event activity from Run11 (Qian) and Run13 p+p 500 GeV with MTD (Rongrong) -XXX-  
 PA: finalizing the analysis. May combine with (27) for a paper proposal in 6-12 months.
17. Jpsi R\_AA from Run12 U+U 193 GeV (Guannan: HT, Jana: Central, Ota/Petr: MB)  
 ZY: MB and HT have been approved as preliminary results. Central being worked on by Jana and will need embedding. Timescale for PWGC preview unclear.  
 Petr: currently working on analysis note for MB together with code cleanup. Can be done in less than 2 months.
18. Jpsi R\_AA, v2 and Upsilon from Run14 Au+Au 200 GeV with MTD (many people) -XXX-  
 PA: wait for data production to finish. May request a PWGC preview in 6 months.
- \*\*\*\*\* No preliminary results
- yet \*\*\*\*\* 19. D0 production from Run12 Cu+Au 200 GeV (Pavel) PA: will present analysis update at the BNL collaboration meeting
20. D0-hadron correlation and D0 v1, v2, v3 from Run14 Au+Au 200 GeV with HFT (Yadev)  
 PA: will present analysis update at the BNL collaboration meeting
21. NPE-hadron correlation from Run11 p+p 500 GeV (Wei Li)  
 PA: almost ready. May combine with (11) for a paper proposal. Also working on NPE cross-section.  
 ZY: Slides of the analysis have been presented to HF PWG but not approved due to the abstract was not accepted. Close to Preliminary.

22. NPE R\_AA from Run10 Au+Au 200 GeV MB (Kunsu)  
PA: work on the analysis, hope to complete the analysis in 1-2 months. Prepare for publication in 12 months.
23. NPE from Run14 Au+Au 200 GeV with HFT (many people)  
ZY: HFT embedding may be required.
24. Jpsi-hadron correlation from Run11 p+p 500 GeV (Qian)  
PA: Will present analysis at the BNL collaboration meeting. Will combine with (13) for a paper proposal.
25. Jpsi production cross-section from Run12 p+p 200 GeV (Bingchu)  
PA: Try to complete the analysis within 3 months. Will combine with (15) for a paper proposal.
26. Jpsi polarization from Run12 p+p 200 GeV (Siwei) PA: Try to complete the analysis within 3 months. Will combine with (15) for a paper proposal.
27. Jpsi yield vs event activity from Run12 p+p 200 GeV (Bingchu) PA: Try to complete the analysis within 3 months. May combine with (16) for a paper proposal.
28. Jpsi production cross-section from Run13 p+p 500 GeV with MTD (Rongrong) PA: working on the analysis. Will combine with (13) for a paper proposal.
29. Jpsi-hadron correlation from Run13 p+p 500 GeV with MTD (Te-Chuan/Yi)  
PA: working on the analysis. Will combine with (13) for a paper proposal.
30. Upsilon production from Run11 p+p 500 GeV (Leszek)  
PA: working on the analysis. Need 6-9 months to finish.
31. Lambda\_c from Run14+Run16 Au+Au 200 GeV with HFT (Miro) ZY: Need Run16 data
32. B->Jpsi from Run14 Au+Au 200 GeV with HFT (Zaochen)  
ZY: Need Run16 data

PWG Feedback

# **LIGHT FLAVOR**

# current and incoming paper proposals

## A. PWGC preview done, not in GPC

1. Strangeness in BES.
2. Dielectron production in BES.
3. Rcp in BES.

## B. Preliminary results presented, no PWGC preview

1. Joint paper of spectra and flow in FXT Au+Au 4.5 GeV.
2. BES pion rapidity density.
3. FXT in Au+Au 4.5 and Au+Al 4.9 GeV.
4. Deuteron production and B2 in BES.
5. Hypertriton 2-body and 3-body.
6. Spectra and flow in Au+Au 14.5 GeV.
7. Dielectron in U+U and in p+p in run12.
8. Xi1530 in p+p 200.

PWG Feedback

# **BULKCORR**

# Bulkcorr papers not yet in GPC

- Beam Energy Dependence of Charged Kaon Directed Flow in Au + Au collisions

PAs: Yadav Pandit, Gang Wang, Olga Evdokimov, Declan Keane and Nu Xu

Target: PRL

<http://www.star.bnl.gov/protected/bulkcorr/ypandit/KaonPaper/>

PWGC proposal done on Nov. 18, 2014

More particles & 14.5 GeV since added, PAs completing analyses.

- Third Harmonic Flow  $v_3^2\{2\}$  at forward pseudorapidity

PAs: Niseem Magdy and Paul Sorensen

Target: PRL

[http://www.star.bnl.gov/protected/bulkcorr/niseem/paper\\_pro/ftpcv3/](http://www.star.bnl.gov/protected/bulkcorr/niseem/paper_pro/ftpcv3/)

PWG proposal done in March 2015

- Harmonic decomposition of three-particle azimuthal correlations at RHIC

PAs: Paul Sorensen, Jim Thomas, Prithwish Tribedy, and Ron Longacre

Target: PRC, and possible PRL with more model calculations

<https://drupal.star.bnl.gov/STAR/content/three-particle-harmonic-decomposition>

PWG proposal done on Dec. 09, 2015

PWGC proposal done on Jan. 5, 2016

BulkCorrPWG – paper status (1)

# Bulkcorr papers not yet in GPC

- Charge-dependent Directed Flow in Cu+Au Collisions

PAs: Takafumi Niida and Sergei Voloshin

Target: PRL

<http://www.star.bnl.gov/protected/bulkcorr/taknn/Paper/cuauv1/HP/index.html>

PWG proposal done on Jan. 06, 2016

PWGC proposal to be done on Feb. 2, 2016

- Lambda Global Polarization

PAs: Isaac Upsal, Mike Lisa and Sergei Voloshin

Target: PRL

<https://drupal.star.bnl.gov/STAR/blog/lisa/proposal-prl-global-lambda-polarization>

PWG proposal done on Dec. 16, 2015

PWGC proposal to be requested once comments from PWG proposal addressed

- Anisotropic collective flow in Cu+Au collisions

PAs: Takafumi Niida and Sergei Voloshin

Target: PRC

Paper in progress, results presented at QM2015.

- 4.5 GeV Au+Au FXT (Joint with LFS)

<http://www.star.bnl.gov/HyperNews-star/protected/get/bulkcorr/2801.html>

PWG Feedback

**UPC**

# Analyses and papers in UPC

## **Papers in GPC:**

ANN paper from 2009 data, waiting for Dima to have time to address GPC concerns. Nothing serious but lack of time slowed the progress of this important paper.

## **Paper proposal:**

Rho paper, see status in e-mail from Spencer and the discussion on Wednesday

## **UPC analyses:**

J/Psi in run 10/11 Chanaka

Other analyses in run 14 data - let us know. Discussion on Wednesday.

## *Run 15 analyses:*

CEP analysis - Rafal

Particle ratios in SDD - Lukasz

First paper from DPE in Run 15: Feasibility discussion lead by JH on the topic of Pomeron dynamics

Single spin asymmetries in diffraction with leading forward protons in pA, pp JH and Kin