

# Updates from PACs

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Physics Analysis Coordination Meeting – Aug 5<sup>th</sup>, 2025

## □ ePIC Collab. Meeting at JLAB

- Three well attended PA-related parallels/workfests
  - **Physics obs. and detector performance:** initiated xtalks with DSCs (tracking, DIRC,...)
  - **Exclusive+Diff+Tag:** good progress towards a group's review paper on early science
    - See S. Kay's report today
  - **Jets and H.F.:** good progress of group's activities

## □ PAC Meeting organization

- Is current slot OK for new conveners?
- Need to find an additional slot suitable for east coast → discussion today
- This meeting will serve as “**physics forum**” for result release and paper presentations

# New PWG Conveners



- We petitioned the C.C. for the new slate PWG conveners:  
<https://indico.bnl.gov/event/28733/>
  - Win Lin (INCLUSIVE), Anselm Vossen (SIDIS), Shyam Kumar (JETS+HF), Stephen Kay (Ex+Diff+Tag), Zuhal Seyma Demiroglu (BSM+EW)
- Waiting for the result of voting and the official, we should assume success:
  - New nominees should already start as acting conveners
  - New conveners have already control of mailing lists, wiki pages... of their PWG
  - We have **a month overlap** between old and new conveners

# Overview of simulation production requests

 [https://docs.google.com/spreadsheets/d/1BJeq3AYwefNC9m3palH6T0SHMxmRmHpOzLTsa\\_6SZIU/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1BJeq3AYwefNC9m3palH6T0SHMxmRmHpOzLTsa_6SZIU/edit?usp=sharing)

Overview of Requested Simulation Productions by PWGs

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- **An essential tool for helping S&C with organizing production**
  - It was created and advertised a few months ago, as a follow up from discussions at the CFNS early science workshop
- **This list needs to be filled by conveners of each PWG**
  - either directly or by PACs with the infos

# Official templates for plots and Notes

**The Results Release Committee has developed the following documents/templates that will help present ePIC results to the community in a professional and coherent fashion**

- Results release procedure: [https://www.epic-eic.org/documents/results\\_release.html](https://www.epic-eic.org/documents/results_release.html)
- Ana/Tech Note submission and templates: [https://www.epic-eic.org/documents/note\\_process.html](https://www.epic-eic.org/documents/note_process.html)
- Style and plotting macro: [https://github.com/eic/ResultsCommittee\\_templates/tree/main/plot\\_macro](https://github.com/eic/ResultsCommittee_templates/tree/main/plot_macro)
- Template Notes: [https://github.com/eic/ResultsCommittee\\_templates/tree/main/analysis\\_note\\_template](https://github.com/eic/ResultsCommittee_templates/tree/main/analysis_note_template)

**Please follow these guidelines for:**

- pre-TDR and early science plots
- Upcoming Analysis Notes Plots
- Performance plots and other relevant results within your PWG

# pre-TDR: the way forward

- ❑ pre-TDR v2.1 now on zenodo: <https://zenodo.org/records/16040092>
- Separated TDRs for ePIC and EIC: Ch. 2/8 become “physics” and “technical” chapters
- Editorial Board formed and chaired by S. Dalla Torre and J. Haggerty
  - preTDR content: Ed. Board meets text authors of the various sections/subsections
    - Remember: TDR is everyone’s priority

	chapter	section	subsection	subsection	title	contact persons
	2				Physics Goals and Requirements	
		2.1			EIC Context and History	Salvatore Fazio, Rachel Montgomery, Rosi Reed
ePIC		2.2			The Science Goals of the EIC and the Machine Parameters	Elke Aschenauer, Rolf Ent
responsibility		2.3			Reconstruction Tools and Special Probes	Salvatore Fazio, Rachel Montgomery, Rosi Reed
			2.3.1		Reconstruction of DIS kinematics	Tyler Kutz, Stephen Maple, Win Lin
Project			2.3.2		Semi-inclusive kinematics and hadron identification	Stefan Diehl, Ralf Seidl, Anselm Vossen
responsibility			2.3.3		Reconstruction of kinematics for exclusive and diffractive processes	Raphael Duple, Zhoudunming Tu, Stephen Kay
			2.3.4		Electron identification	Tyler Kutz, Stephen Maple, Win Lin
			2.3.5		Muon identification	Ciprian Gal, Juliette Mammei, Zuhail Seyma Demiroglu
			2.3.6		Jets: a versatile probe	Olga Eldokimov, Rongrong Ma, Shyam Kumar
		2.4			The EIC Science - ePIC performance for key observables	Salvatore Fazio, Rachel Montgomery, Rosi Reed
			2.4.1		Origin of Nucleon Mass	Salvatore Fazio, Rachel Montgomery, Rosi Reed
				2.4.1.1	Inclusive neutral current cross sections	Tyler Kutz, Stephen Maple, Win Lin
Joint			2.4.2		Origin of Nucleon Spin	Stefan Diehl, Ralf Seidl, Anselm Vossen
responsibility			2.4.3		Multi-Dimensional Imaging of the Nucleon	Salvatore Fazio, Rachel Montgomery, Rosi Reed
				2.4.3.1	Imaging in Momentum Space	Stefan Diehl, Ralf Seidl, Anselm Vossen
				2.4.3.2	Imaging in Transverse Position Space	Raphael Duple, Zhoudunming Tu, Stephen Kay
				2.4.3.3	Upsilon production	Raphael Duple, Zhoudunming Tu, Stephen Kay
			2.4.4		Properties of Nuclear Matter	Salvatore Fazio, Rachel Montgomery, Rosi Reed
				2.4.4.1	Gluon Saturation	Raphael Duple, Zhoudunming Tu, Stephen Kay
				2.4.4.2	Nuclear Modifications of Parton Distribution Functions	Olga Eldokimov, Rongrong Ma, Shyam Kumar, Stefan Diehl, Ralf Seidl, Anselm Vossen
				2.4.4.3	Passage of Color Charge Through Cold QCD Matter	Olga Eldokimov, Rongrong Ma, Shyam Kumar
			2.4.5		Additional physics opportunities	Salvatore Fazio, Rachel Montgomery, Rosi Reed, Ciprian Gal, Juliette Mammei, Zuhail Seyma Demiroglu