

CLAS Collaboration Meeting, March 2026

Deep Processes Working Group

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Deep Processes Working Group

Useful Information

Mailing List

You can sign up here: <https://mailman.jlab.org/mailman/listinfo/deeppwg>

Meetings

Thursdays, 8:30 AM (aimed biweekly, but generally organized as needed)

- Zoom Meeting ID: 161 807 0446
- Passcode: Sent in the email to DPWG

Weekly Meeting Agenda [\[edit\]](#)

March 26, 2026 [\[edit\]](#)

Extraction of spin-asymmetries in the production of exclusive π^+ with a longitudinally polarized target - New Analysis Review - Timothy Hayward

March 9-13, 2026 [\[edit\]](#)

CLAS Collaboration Meeting

March 5, 2026 [\[edit\]](#)

Discussion on strategy and alignment for the enyr final-state analyses.

- Sullivan DVCS BSA Update - Elouan Ferrand [link to file](#)
- DVCS on nucleon resonance analysis update - Stefan Diehl [link to file](#)

February 5, 2026 [\[edit\]](#)

- Fiducial cuts for DC and ECAL for RGC - Derek Holmberg [link to file](#)
- RGA Fiducial Cuts, Original Presentation to RGA Group meeting April 30, 2025 [🔗](#) - Timothy Hayward

January 15, 2026 [\[edit\]](#)

- ρ^0 -electroproduction beam-spin asymmetry extraction - Update after approved Analysis Review, [link to file](#) - Andrey Kim, Nick Trotta

January 8, 2026 [\[edit\]](#)

- Exclusive J/ψ photoproduction - Update after approved Analysis Review [🔗](#) - Pierre Chatagnon

Previous Years Meetings [\[edit\]](#)

- 2025 Meetings and before

Deep Processes Working Group

Useful Information

Wiki https://clasweb.jlab.org/Hall-B/dpwg/index.php/Main_Page



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Overview

Welcome to the CLAS12 Deep Processes Working Group (DPWG).

This wiki is a working space for sharing analysis plans, meeting materials, tools, and documentation across the DPWG community.

How to contribute

- All DPWG members are encouraged to propose additions or updates to this wiki.
- You can edit pages after logging in with your JLab CUE credentials.
- If you prefer, send suggestions or content to the [\[chair\]](#) and we will post it for you.

If you are new to the group, start by browsing the sections in the top menu. Thank you for helping keep this space current and useful to everyone.

New Preliminary Results

Preliminary Results

[Back to the Main page](#)

This page serves as an archive for tracking preliminary releases for the DPWG.

- If the results reached the publication stage, **please use the published plots**.
- When using released preliminary plots in your presentation, **please credit** the release author and the CLAS Collaboration.

Topic	Authors	Institution	Data	Release Date	Conference	Presentation	Note	Plots	Publication
Beam-spin asymmetry extraction of Sullivan DVCS with RGA data	Elouan Ferrand	CEA Saclay	RGA	15 Oct 2025	EINN2025	here	here	here	
Measurements of the Cosphi and Cos2phi Moments of the Unpolarized SIDIS pi+ Cross-section at CLAS12	Richard Capobianco	UCONN/ANL	RGA	07 Oct 2025	DNP2025	here	here	here	
Measurement of the pi0 multiplicities in SIDIS at CLAS12	Valerii Klimenko	Argonne	RGA	03 Oct 2025	DNP2025	here	here	here	
Measurement of DVCS cross section on the neutron at the CLAS12 experiment	Li Xu	IPN-Orsay	RGB	11 Sep 2025	EuNPC2025	here	here	here	
RGC Exclusive pi+ spin-asymmetries with a longitudinally polarized target	Timothy B. Hayward, Harut Avakian, Maggie Kerr	MIT/JLab	RGC	22 Aug 2025		here	here	here and here	

Submitted for Publication/On ArXiv

Measurement of the near-threshold J/ψ photoproduction cross section with the CLAS12 experiment

Contact: Pierre Chatagnon

Measurements of Beam Spin Asymmetries of $\pi^{\pm}\pi^0$ dihadrons at CLAS12

Contact: Gregory Matousek, arXiv:2602.1471

Longitudinal Spin Transfer to Λ Hyperons with CLAS12

Contact: Matthew McEneaney, arXiv:2509.05758

In Analysis Review

"Extraction of spin-asymmetries in the production of π^+ with a longitudinally polarized beam/target at CLAS12" (Review #7091961, Timothy Hayward)

- Analysis has entered internal review

"Measurement of the Deeply Virtual π^0 Electroproduction Cross Section off the Proton at 10.6 GeV using CLAS12" (Review #1334997, Igor Korover)

- Analysis has entered internal review

In Analysis Review

"BONuS12 Neutron DIS Analysis" (Review #5563554, Hattawy)

- First round of review comments posted; discussion scheduled during today's DPWG meeting
- Reviewers raised major concerns about RTPC efficiency determination, momentum-dependent corrections, and consistency between data and MC
- Clarifications requested on background and contamination treatment (He contamination, additional proton backgrounds) and several detector calibration/analysis assumptions

"Deeply Virtual Compton Scattering Beam Spin Asymmetry at 6.5 GeV and 7.5 GeV Polarized Electron Beam with CLAS12" (Review #3404837, Tan)

- First round of review comments sent; major revision requested
- Reviewers requested better justification of analysis choices (cuts, detector corrections, background treatment, π^0 contamination and subtraction) and improved data–MC validation
- Additional concerns raised about systematic uncertainties (especially exclusivity cuts), consistency of results, and comparison with existing data and models

In Analysis Review

Near-Threshold J/ψ Quasi-real Photoproduction (Tyson, Review #1873625)

- Second round of review completed, detailed responses submitted to committee
- Analysis unchanged within uncertainties; main update is background modeling with fit-bias study selecting a 3rd-order polynomial
- Reviewers indicate analysis is close to approval, remaining comments focus on clarifications in procedures, definitions, and error tables

Longitudinal BSA in $K^+\pi^-$, π^+K^- , and K^+K^- Dihadron Production (Pecar, Review #1043422)

- Authors submitted responses to the second round of review comments
- Main reviewer questions focused on limited outbending MC statistics and data–MC discrepancies in tracking/fiducial variables
- Clarifications requested on PID optimization procedure and definition of efficiency/contamination used in the FOM

In Analysis Review

"BAND Analysis" (Review #1844892, Kutz)

- Authors presented an update at the last collaboration meeting and are preparing a new analysis note
- Committee requested clearer comparisons between RG-B data, RG-A background subtraction, and simulation
- Additional studies requested to better understand the origin and normalization of the RG-A background

"DVCS on Proton: A machine learning approach for channel selection" (Review #3787300, Alvarado)

- Four rounds of review comments exchanged; many questions addressed by the authors
- Some discrepancy with the previous CLAS12 result remains under discussion
- Additional clarifications and checks requested; committee will soon discuss how to proceed

Ad-Hoc

'Measurement of the $p(e,e'\gamma)p$ absolute cross section at 10.6 GeV beyond Bethe-Heitler over a large phase space' (Sangbaek Lee)

Committee's second round review, Nov 2025

'A multidimensional study of SIDIS π^- and π^0 beam spin asymmetry over a wide range of kinematics' (Stefan Diehl)

Sent back to Analysis Review end of 2023 - dormant

Soon in Ad-Hoc

'Measurements of Deeply Virtual Exclusive ρ^0 Production with CLAS12' (Kim)

Presentation in yesterday's session

11:00 → 17:35

Day 2: NPWG and DPWG joint session on SIDIS studies and beyond

Conveners: Maria Zurek (Argonne National Laboratory), Raphaël Dupré (IJCLab, Paris-Saclay U.)

11:00 RG-D Update

20 min + 5 min

Speakers: Mathieu Ouillon (Miss State U.), Mathieu Ouillon (Miss State)

 Presentation_CLAS...

11:25 Nuclear TMDs in SIDIS

15 min + 5 min

Speaker: Suman Shrestha (Temple University)

 SS_march.pdf

11:50 Exclusive π^+ Spin Asymmetries from RGC and Fermi Motion Smearing Studies

20 min + 10 min

New Analysis in Review #7091961

Discussion Teaser on Fermi Motion Smearing

Speaker: Timothy Hayward (MIT)

 Hayward 2026 Marc...

12:20 Student Flash Talk: Preliminary look at RGC π^+ -(ND3) analysis

8 min + 2 min

Speaker: Maggie Kerr (Massachusetts Institute of Technology)

 RGCpim_Mar2026C...

 F113 

 25m 

 25m 

 30m 

 10m 

12:35 Membership Committee Meeting

Speaker: Silvia Niccolai (IJCLab Orsay)

 MemCommMar202...

 1h 25m 

14:00 Flash Talk: rho infiltration in SIDIS

8 min + 2 min

Common Discussion after VM in RGA and C talk

Speaker: Fatiha Benmokhtar (Duchesne University)

 Benmokhtar-rho-ep...

 10m 

14:10 Exclusive VM production with RG A and C

15 min + 5 min

Speaker: Harut Avagyan (Jefferson Lab)

 avakian-2026-rho-D...

 20m 

14:30 Beam Spin Asymmetries of Deeply Virtual rho production with RGA

15 min + 5 min

Speakers: Andrey Kim (UConn), Nicholas Trotta (Uconn)

 Trotta_clas12Collab...

 20m 

14:50 SIDIS π^+ π^- dihadron asymmetries from RGC

15 min + 5 min

Speaker: Nilanga Wickramaarachchi (Duke University)

 CM_talk_2026_03_1...

 20m 

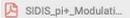
15:10 Lambda SIDIS production on nuclear targets

15 min + 5 min

Speaker: Uditha Weerasinghe (Mississippi State University)

 Uditha-CLAS-Spring...

 20m 

15:30	Coffee Break	30m
16:00	Neutral Pion Multiplicities from RGA	20m
	15 min + 5 min	
	Speaker: Valerii Klimenko (Argonne National Laboratory)	
		
16:20	SIDIS pi+ Modulations from RGA	20m
	15 min + 5 min	
	Speaker: Richard Capobianco	
		
16:40	Exclusive Charged Rho Beam Spin Asymmetry Extraction from RGA	20m
	15 min + 5 min	
	Speaker: Tyler Hellstern (Duke University)	
		
17:00	Neutron DVCS Cross Section Extraction at the CLAS12 Experiment	20m
	15 min + 5 min	
	Speaker: Li Xu	
		

08:25	→ 08:55	Day 3: Light Breakfast Available	
08:30	→ 10:15	Day 3: Deep Processes Working Group 2	
		Convener: Maria Zurek (Argonne National Laboratory)	
08:30		DPWG Intermezzo	10m
		Speaker: Maria Zurek (Argonne National Laboratory)	
08:40		Analysis Review Discussion: Update on BONuS12 analysis	30m
		Review #5563554	
		15 min + 15 min	
		Speaker: Sebastian Kuhn (Old Dominion University)	
09:10		Probing the pion structure with RGA data	25m
		20 min + 5 min	
		Speaker: Elouan Ferrand (CEA Saclay)	
09:35		Phi Electroproduction on the Neutron with RGB	20m
		15 min + 5 min	
		Speaker: Mathieu Ronayette (CEA Saclay)	
10:00	→ 11:30	Day 3: Discussion / Q&A With JLab Senior Leadership	
		Conveners: Bryan McKinnon (University of Glasgow), David Dean (TUNAF), Jens Dilling (Jefferson Lab)	
10:00		Discussion and Q&A With JLab Senior Leadership	1h
11:00		Coffee Break	30m
11:30	→ 13:00	Day 3: Deep Processes Working Group 3	
11:30		DVCS on longitudinally polarized protons in deuterium with RGC	30m
		20 min + 10 min	
		Speaker: Noémie Pilleux (Argonne National Laboratory)	
12:00		RGK DVCS Cross Section Measurements at Multiple Beam Energies	30m
		20 min + 10 min	
		Speaker: Yijie Wang (Massachusetts Institute of Technology)	
12:30		Student Flash Talk: ML for Nucleon ID in the Central Detector	10m
		8 min + 2 min	
		Speaker: Grace Ray (ANL)	
12:40		Student Flash Talk: Nucleon Structure in SRC Pairs via DVCS	10m
		8 min + 2 min	
		Speaker: Mrs Neidy Lorena Bucuru Rodriguez (PhD Student - JCLab JLAB/EIC Group)	