Group meeting 1-21-2022



Agenda

- Accomplishments from 2021
 - Presentations
 - Graduations and awards
 - CORE
- Recent
 - TPOL presentation
- Goals for 2022
- Open discussion



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- Sebastian Cole:
 - Presentation at the GlueX Vector-Pseudoscalar meeting



- Sebastian Cole:
 - Presentation at the GlueX Vector-Pseudoscalar meeting
 - Prospectus



- Sebastian Cole:
 - Presentation at the GlueX Vector-Pseudoscalar meeting
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 - Dissertation ©



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- Brandon Sumner:
 - Presentations (5) at GlueX Cross Section meetings



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 - APS April meeting



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- Patrick Walker:
 - Presentation at the CLAS12 Very Strange meeting



- Patrick Walker:
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 - Honors Thesis Defense



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- Emily Lamagna:
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Graduations:

• Sebastian Cole graduated with a PhD in the summer 2021



Graduations:

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- Patrick Walker graduated with his BS in the spring of 2021



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Awards:

• Patrick Walker: ASU Department of Physics Research Award



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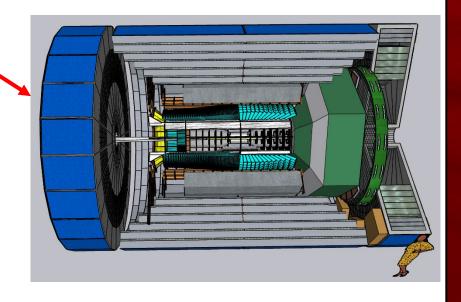
Awards:

- Patrick Walker: ASU Department of Physics Research Award
- Anna Costelle: ASU Women in Physics Award for Undergraduate Research



Accomplishments from 2021 (CORE)

- We have joined CORE (COmpact detector for the Electron ion collider)
- We are designing a Pair Spectrometer
 (PS) for Core
- Joshua Grumski has been writing the PS simulation
- We submitted our portion of the CORE detector proposal in December and recently provided addition feedback to the reviewers.





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Preliminary polarization values for 2020

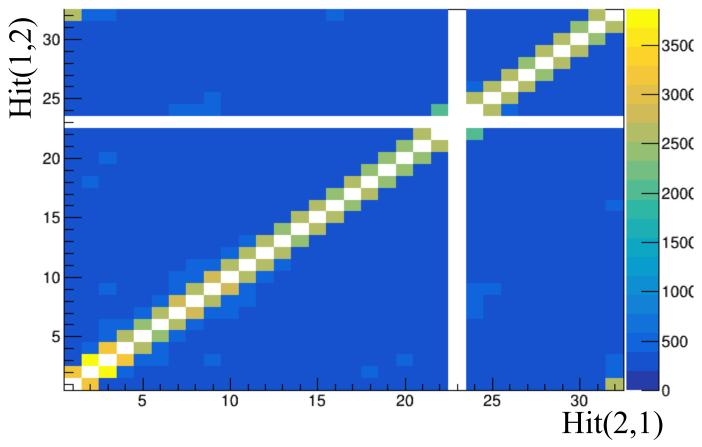


Run range analyzed

Runperiod	Version	Batch	CCDB timestamp	Min Run	Max Run	# Runs	# REST Files (succeeded)	Computing Site	Completed	Details
										71350 - 71405 &
2019-11	01	01	2020-07-24-00-00-01	71350	71591	113	13710 (XXX)	NERSC + IU	2020-XX-XX	71406 - 71470 🗗
										71471 - 71588
2019-11	01	02	2020-08-20-00-00-01	71592	71727	89	16227 (15933 / 98.18%)	PSC + NERSC	2020-XX-XX	71592 - 71700 ៩
										71701 - 71727
2019-11	01	03	2020-09-28-00-00-01	71728	71855	93	20465 (20449)	JLab	2020-10-27	link &
2019-11	01	04	2020-10-29-00-00-01	71863	71942	64	16530 (16522)	JLab	2020-11-21	link &
2019-11	01	05	2020-11-22-00-00-01	71943	72067	75	16933 (16920)	JLab	2021-01-06	link &
								PSC2		72160/72068-72078 72080-72101 &
2019-11	01	06	2021-01-06-00-00-01	72068	72163	77	18024 (18015)	IU	2021-05-05	72079/72102-72112/72135-72145 🕏
								NERSC		72113-72134 / 72146-72163 🗗
2019-11	01	07	2021-01-06-00-00-01	72164	72325	70	14515 (14498)	JLab	2021-03-05	link &
2019-11	01	08	2021-01-06-00-00-01	72362	72435	60	15382 (15375)	JLab	2021-01-21	link &
Break										
2019-11	01	09	2021-04-23-00-00-01	72645	72760	82	16898 (16898)	NERSC	2021-11-22	link &
2019-11	01	10	2021-07-03-00-00-01	72761	72857	72	16890 (16886)	PSC2 + JLab	2021-09-22	link & link & 72831-72857 (JLab) &
2019-11	01	11	2021-07-03-00-00-01	72858	73065	73	15608 (15593)	JLab	2021-07-18	link₽
2019-11	01	12	2021-07-23-00-00-01	73066	73266	116 (59+57)	14235 (14225)	JLab	2021-08-10	73066-73151 (JLab)₽
							14542 (14538)	NERSC	2021-11-11	link



Check of sector definitions after change in fADC modules (from 2 to 4 modules)







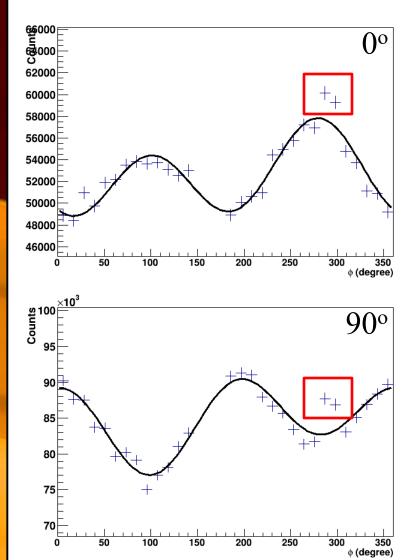


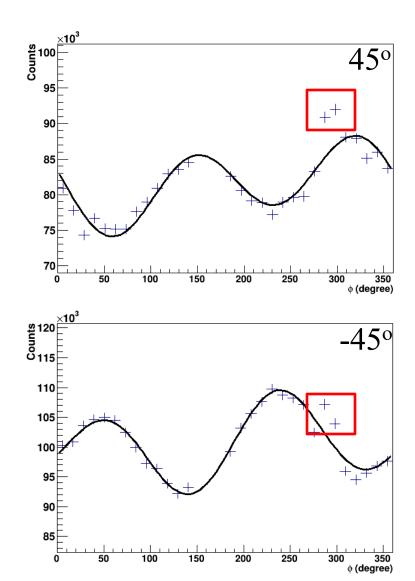
Sector issues

- Previously we removed sectors 22, 23, 24 from the TPOL analysis
- There are now two more sectors that are causing issues 🕾



Fits for E_{γ} between 8.2 and 8.8 GeV

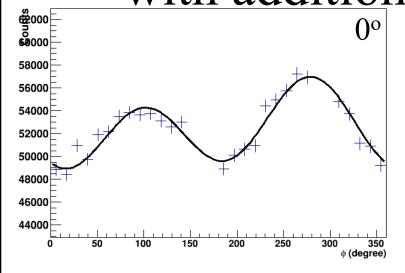


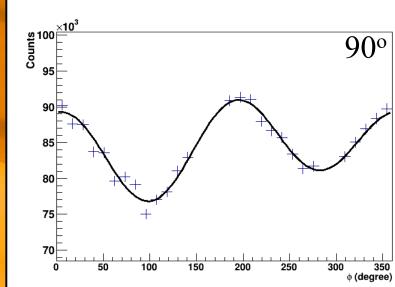


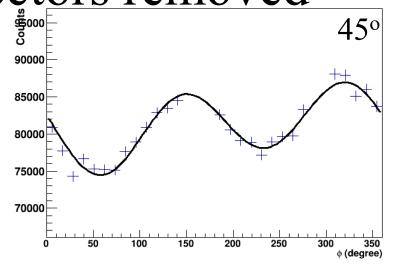


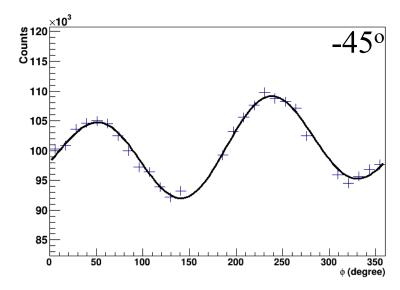
Sectors in red box need to be removed from the analysis 34

Fits for E_{γ} between 8.2 and 8.8 GeV with additional sectors removed



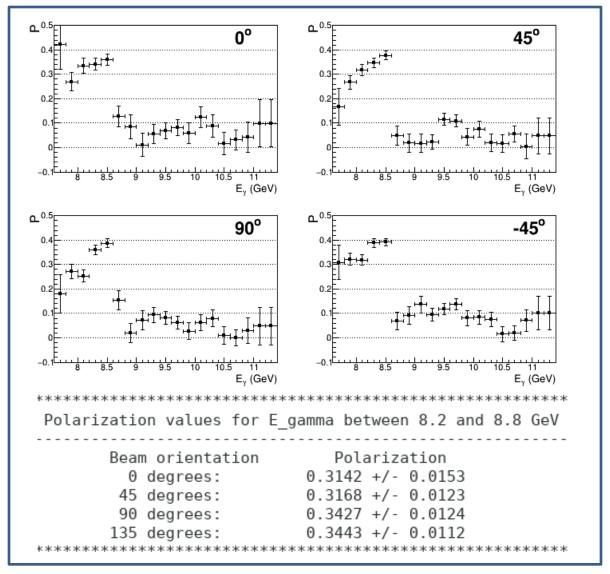








Polarizations





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 - Obtain postdoc/job



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 - Obtain postdoc/job
- Alan:
 - PWA



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 - TPOL upgrade
- Rebecca:
 - Defend honors thesis!



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 - Presentation at the ASU Physics Symposium



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 - Presentation at the ASU Physics Symposium
- Shane:
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Title

