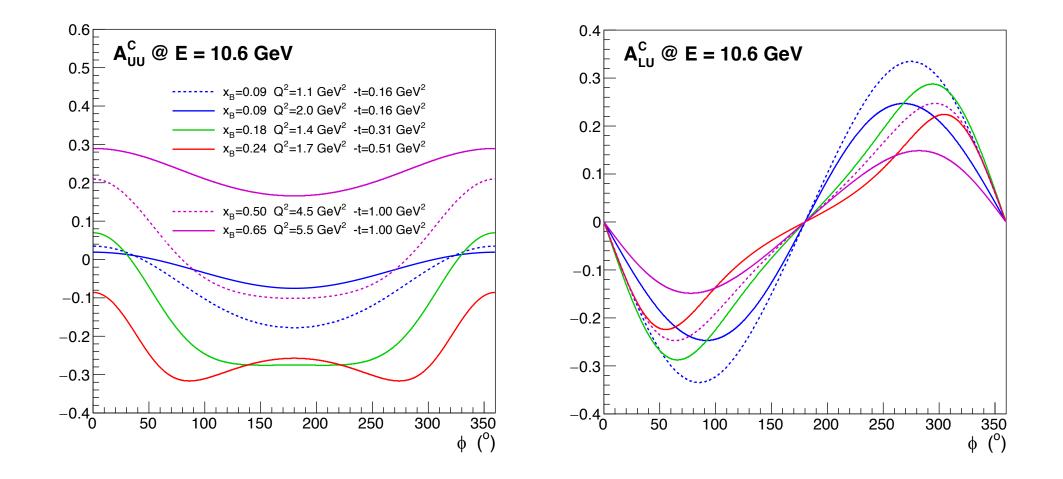


## Table of contents

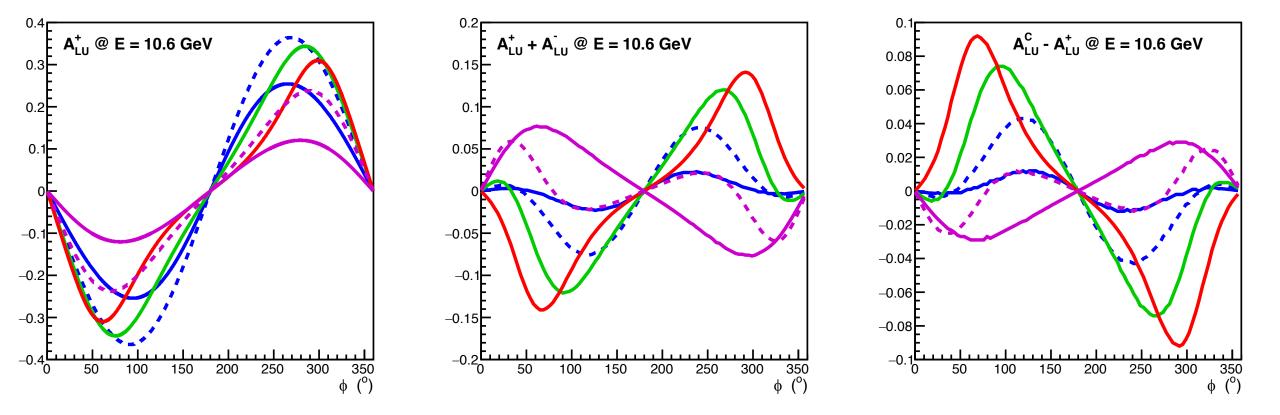
1 Introduction	4	
2 Deeply Virtual Compton Scattering	5	
2.1 Separation of reaction amplitudes	5	
2.2 Access to Generalized Parton Distributions	7	
2.3Beam Charge Asymmetries	8	<ul> <li>Theoretical evaluation of observables (slide after)</li> </ul>
3 Impact of positron measurements	10	Extraction of Compton Form Factors (part of today discussion)
4 Polarized positron beam production and transport	<u> </u>	
4.1 Polarized positron source		
4.2 CEBAF operation with positron beams		
4.3 Positron beam operation in Hall B	15	<ul> <li>CLAS12 background with positron beams (Latifa)</li> </ul>
5p-BVCS-at-CLAS12-with-a-positron beam	45	<ul> <li>Section close to completion</li> </ul>
5.1 -Detector-configuration	45	Is there anything missing ?
5:2- Kinematic coverage	<u>1</u> 7	In-bending/Out-bending discussion ?
6 Control of systematic uncertainties		Forward Tagger in or out ?
6.1 Origin of systematics		
6.2 -Beam charge asymmetrics-systematics		
7 Beam time request	21	Must be done urgently
7.1 Proposed measurements	21	Run Plan / Commissionning / Calibration (What beam energy ?) / Physics (10.6 GeV)
7.2 Experimental projections	21	Unpolarized and polarized BCA
A Beam polarization measurement		
B Polarized positron beams at Jefferson Lab		
B.1 Radiological considerations		
B.2 Beam power considerations		
B.3 Personnel and machine protection		
B.4 Reversal of CEBAF magnetic field		



- The reference model is chosen to be the first evaluation of FX using KM CFF (EIC compatible) and BKM implementation of the cross section (references for KM and BKM ?)
- The comparison between different models at a fixed kinematics has still to be done







Note the small numerical wiggles in comparison observables.



## • Status of the simulation of CFF extraction

FX is using BKM to produce cross sections from CFF input and fit observables with a procedure similar to MG Silvia is using VGG to produce observables and use the fit procedure developed by MG within VGG

- Observables according to BKM
  - CFF from reference model CFF from KM15
  - CFF from VGG used in DDVCS simulations
- Observables according to VGG
   via PARTON
   via VGG original
- · CFF extraction

via BKM with BKM based observables via VGG with VGG based observables via BKM with VGG based observables Section 3 must be an undisputable demonstration of the benefit of positron beams for CFF extraction. It is unclear the best way to proceed towards this goal. There exists not only a statistical effect (easy to evaluate) but also a systematic effects related to the true value of CFFs as well as other genuine contributions.



• 1st Pass for CLAS Review deadline

Yields are created from the scaling of previously derived neutron yields (x 5), taking into the geometrical acceptance of CLAS12 and 70% efficiency for the proton detection (same binning as the LOI-12-18-004) Calculation of VGG observables is currently running (slow...) Evaluation of statistical error bars is ongoing CFF extraction will follow as soon as obversables are obtained

• Final Pass for PAC deadline

Running the procedure for FX binning with a better deterimnation of acceptance effects using VGG pDVCS cross sections and fastMC