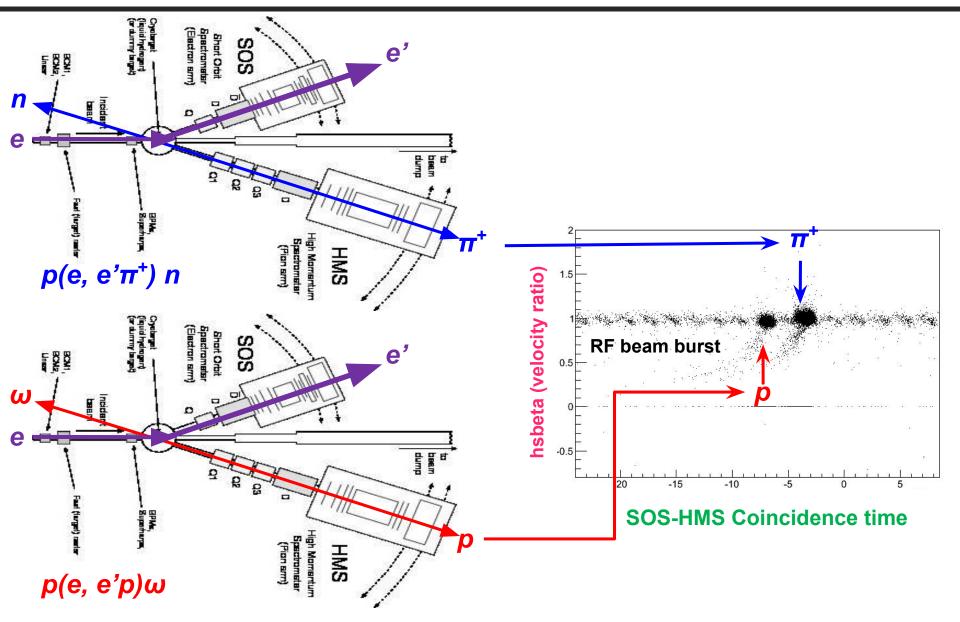
Simultaneous Access to DVCS and DEMP at Large Skewness

Wenliang (Bill) Li, Justin Stevens College of William and Mary

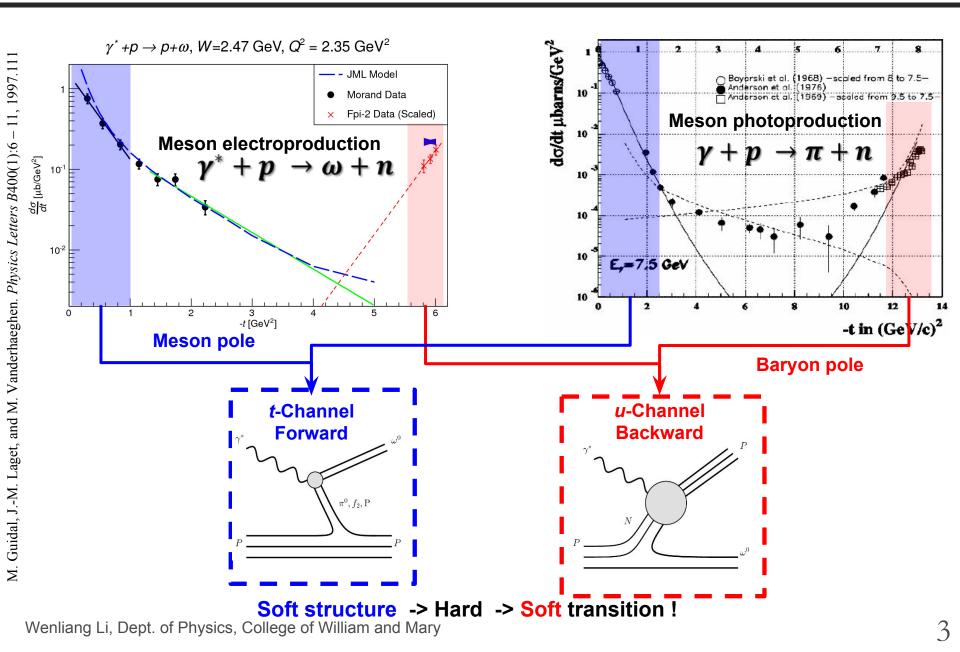
Garth Huber University of Regina, Canada



What is Backward Angle Physics ?



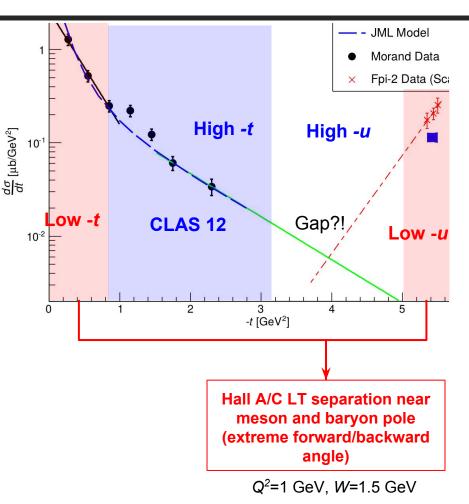
Backward Angle Physics: Access to Unknown Kinematics



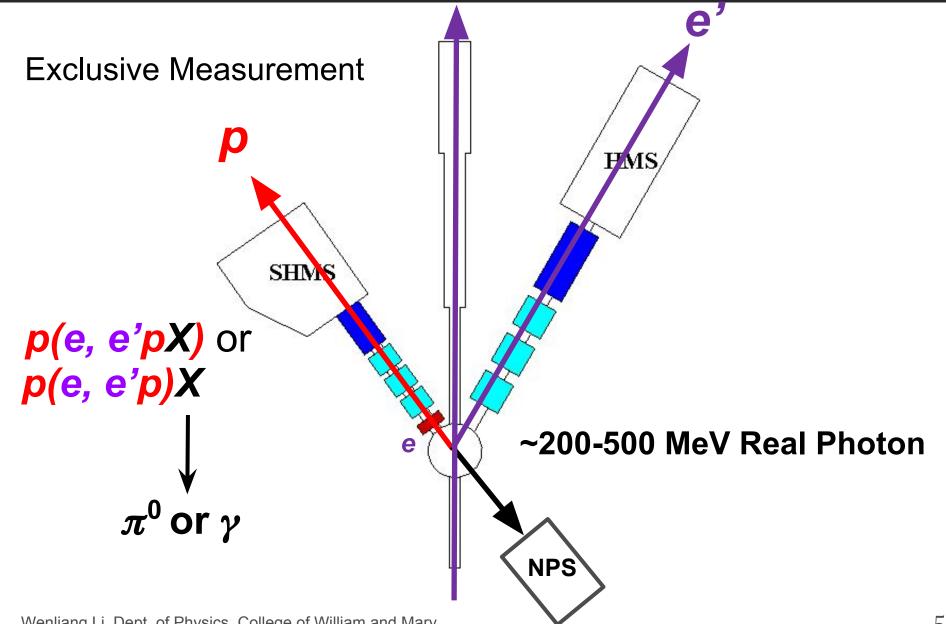
What can we learn from the backward angle observable?

- Why Now?
 - Backward angle cross section is demonstrated to be non-zero!
- Compete picture of -t evolution
 - Provide low -u cross section
- Regge Model
 - Study the baryon Regge pole (trajectory)
- GPD factorization at larger -t (TDA) in the backward angle
 - Alternate or parallel methodology
- Quantify physics meaning of *u*
 - *t* -> impact parameter
 - s-> invariant mass
 - \circ Q² -> Resolving power
 - **u -> ?**

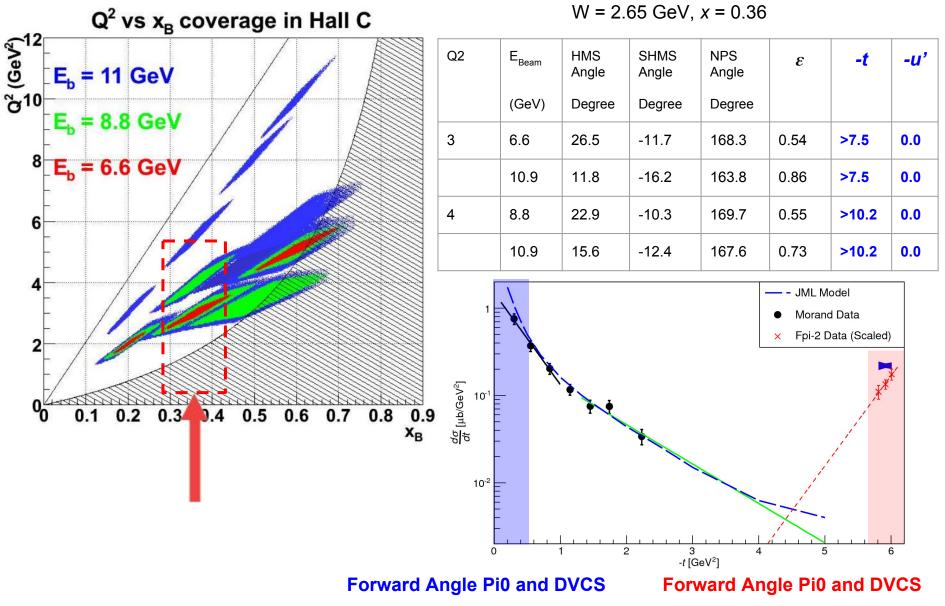
better understanding t leads to understand of u



How Do We access the backward angle physics?



At What Kinematics?

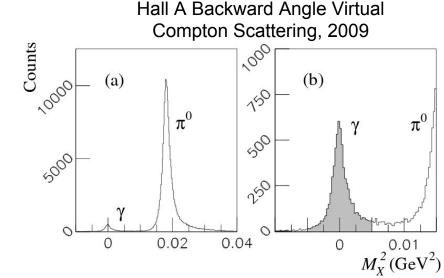


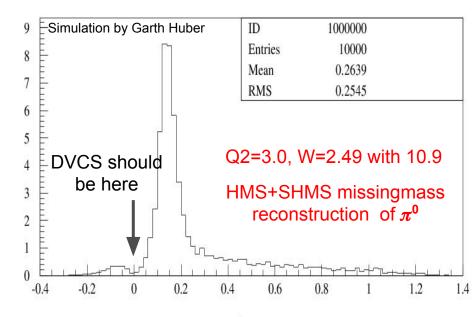
Requirements for Backward Angle DVCS and π^0 **Program**

- **Backward angle** π^0 **Program**
 - W = 2.65 GeV, x = 0.36, Q²= 3, 4 GeV
 - Standard L/T Separation
 - SHMS + HMS
 - Missingmass reconstruction method applies.

Backward Angle DVCS Program

- Run simultaneously with the π⁰
 Program
- LT Separation?
- Require NPS for ~300 MeV real photon (possible?)
- A three ton stand required.
- Triple coincidence
- LOI for PAC 2018





Thank you

