

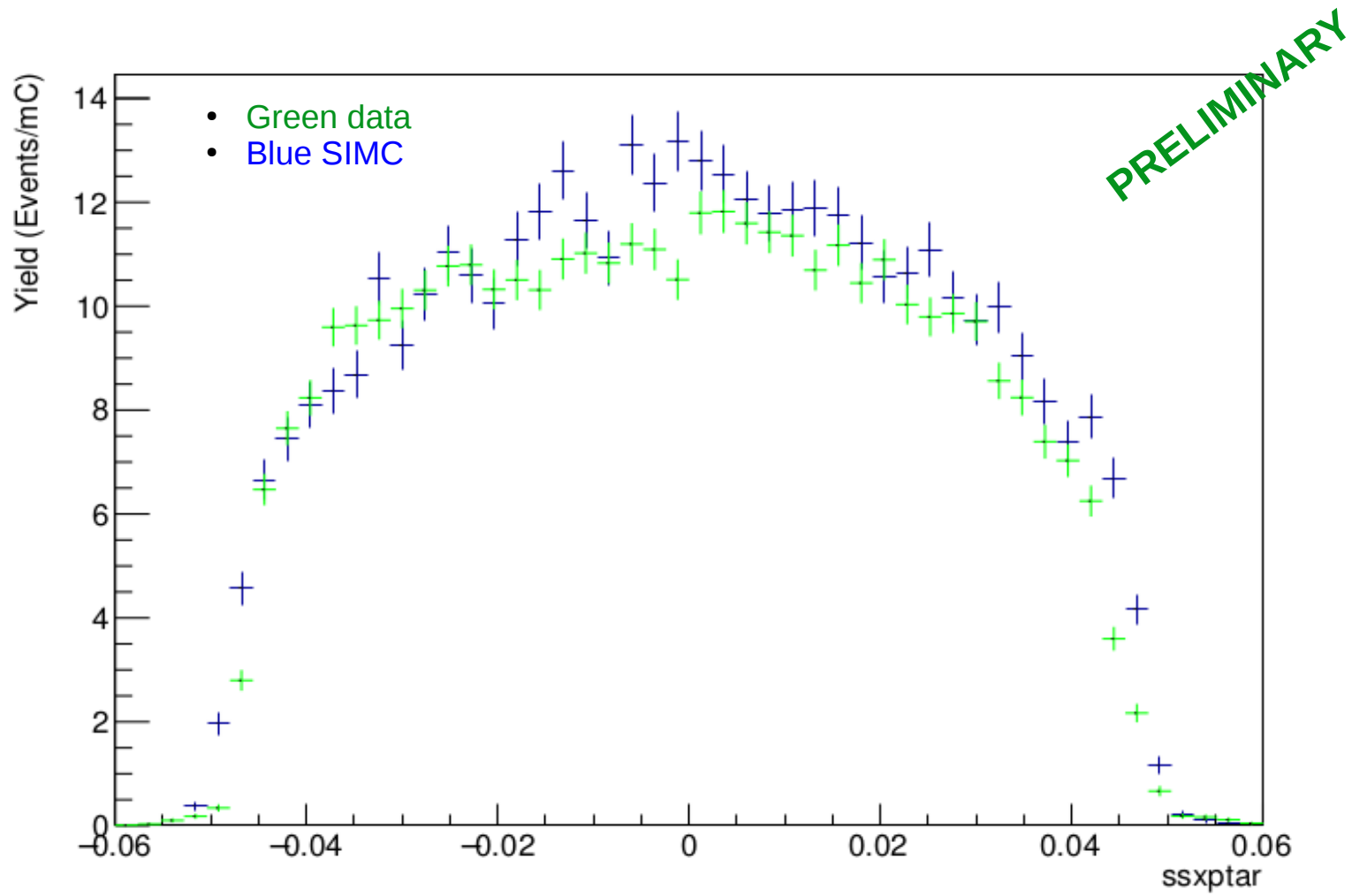
- **Working to analyze the summer 2019 data**
    - **$Q^2 = 0.38$  and  $0.42 \text{ GeV}^2$**
    - **Each  $Q^2$  has 3  $\epsilon$  (low, mid & high)**
- 

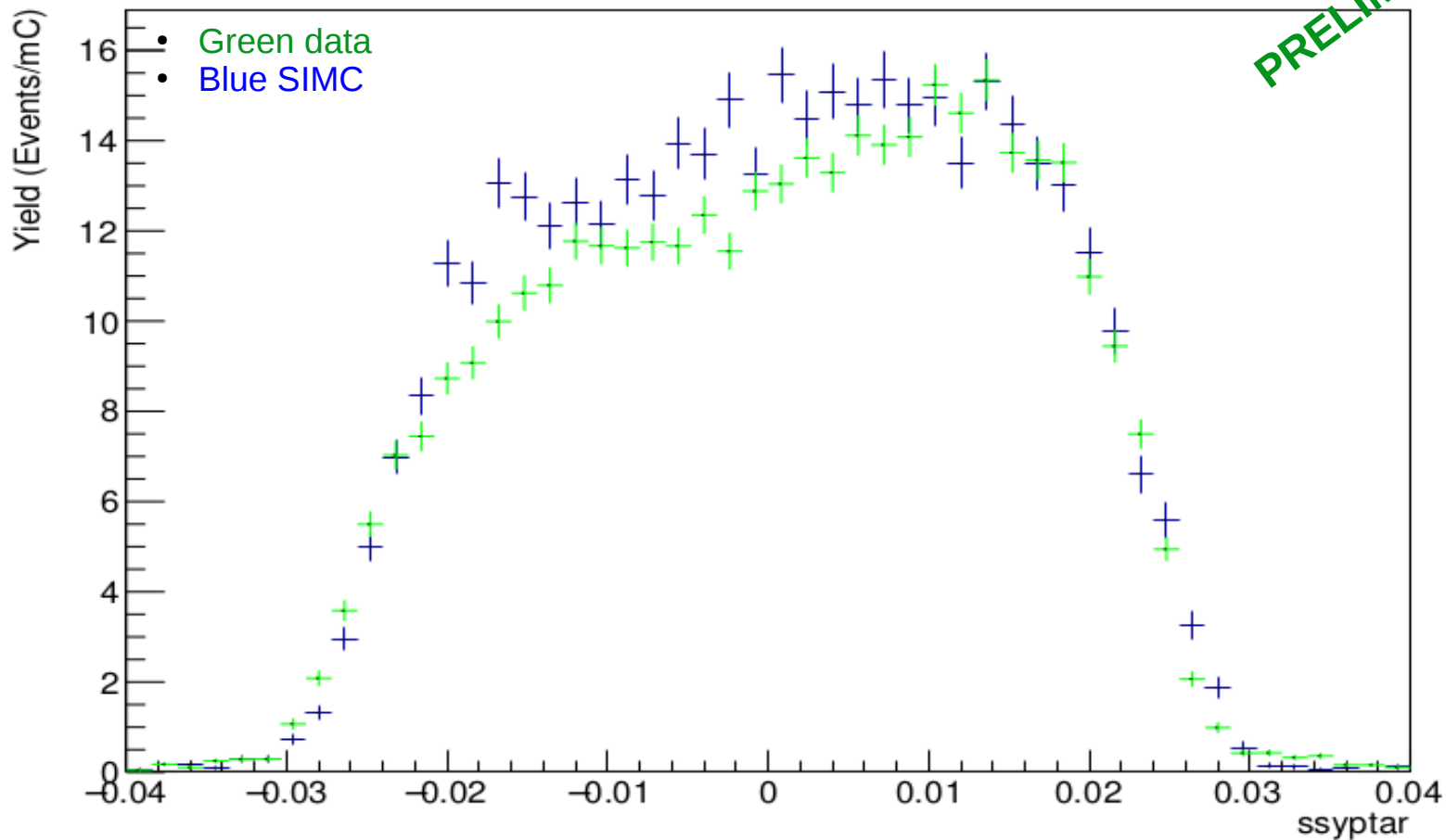
### Update:

- Switched the **pion** routine in SIMC
  - `physics_iterate.f` from `physics_pion.f`
- Re-ran SIMC to simulate the  **$p(e, e'\pi^+)n$**  reaction for all the settings of  **$Q^2 = 0.38 \text{ GeV}^2$**  data.

# SHMS xpstar

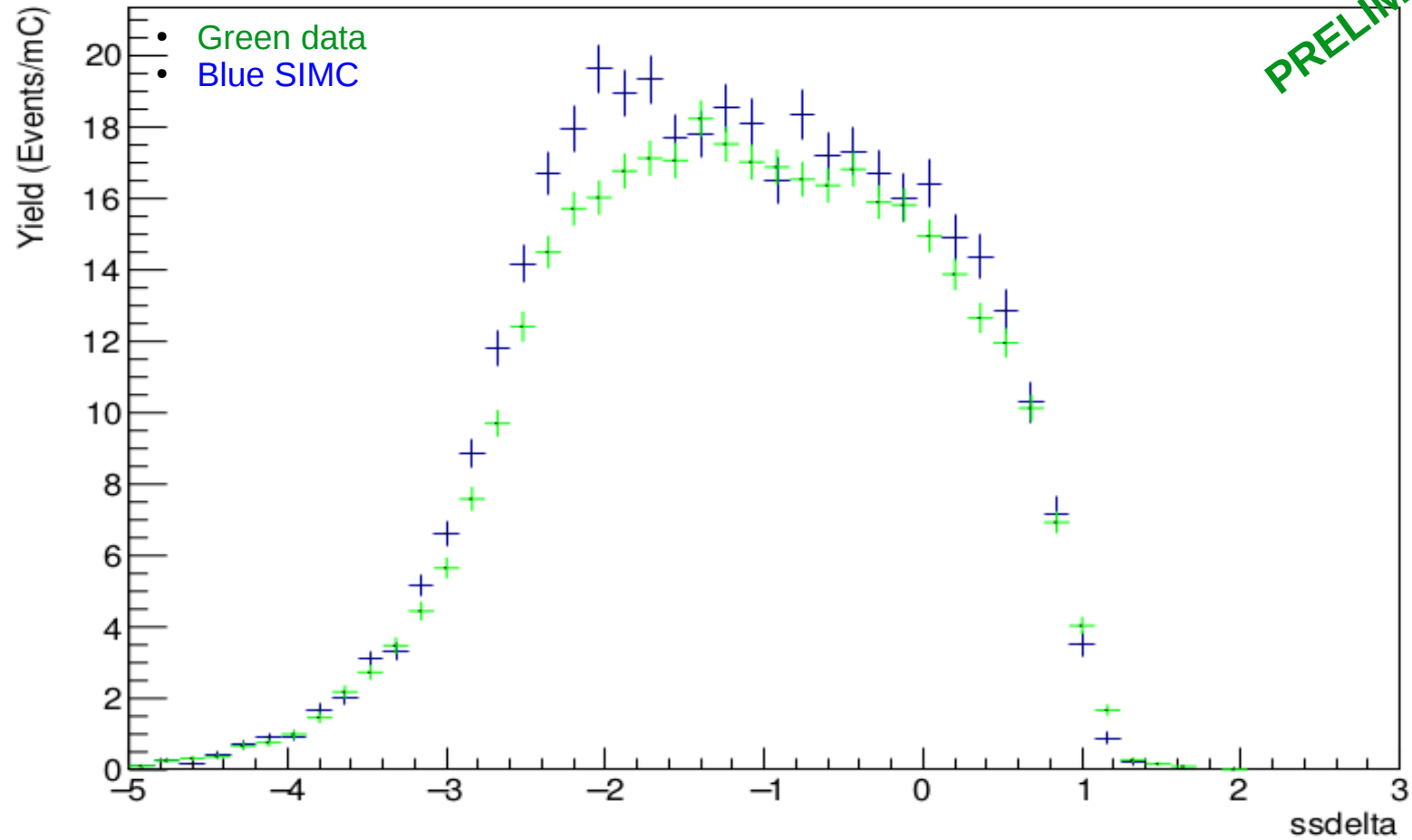
High  $\epsilon$  & Right setting





# SHMS delta

High  $\epsilon$  & Right setting



## Next Plan:

- Working to compare the other variables,  $W$ ,  $Q^2$ ,  $-t$ ,  $\Phi_\pi$ , of the reaction.
- Plan to compare the  $\Phi_\pi$  variables bin by bin for each **t-bin**. Once I'll have this, then I'll get the ratio of Yields to get the **experimental cross-section** in each bin.