ECCE Proposal

Proposal and supplementary analysis notes submitted Dec 1st

Proposal and analysis notes: https://www.ecce-eic.org/ecce-internal-notes

Passcode here:
https://indico.bnl.gov/event/11531/contributions/48926/attachments/38521/63535/ECCE-Bi-Weekly-Meeting-11222021.pdf

Report Card: How did Diff & Tagg WG do?

		Included in the Proposal?	Documented in the proposal?
High Priority	**Pion Form Factor**	Yes	Yes
	pion structure function	Yes	Yes
	Neutron Spin Structure	Yes	Yes
	eA Diffractive J/psi	Yes	Yes
Low Priority	**Upsilon production**	No	Yes (Study not completed)
	u-Channel DVCS and pi0	Yes	Yes(Study not started)
Other study	**3T vs 1.4T study**	Yes (eA Diffractive J/psi)	Yes
	IP6 vs IP8 study	No	Yes

Completed most of planned tasks!

Post proposal work for Diff & Tagg WG

- **Next Step:**
  - **High priority: Completing *u*-Channel π^0 production at IP6 to justify using PbWO4 in B0 Calorimeter**
  - **IP8 studies**
    - **Double Tagged NSS measurement**
    - **eA Diffractive J/psi at IP8**
    - **Pion Form factor and Pion structure function study**
  - **Continuing Υ production study**
  - **Sartre Zr table is still on going**

- **Special task:**
  - **Including scattering beam characteristics at different beam energies and combinations.**
    - **https://docs.google.com/spreadsheets/d/1JSEgQmTWf82bxUou8Cossx1oy7G7tlaF75MvrGGdijc/edit?usp=sharing**
  - **Refining IP8 design based on suggestion especially around 2nd focus region**

Exclusive WG

- pi0 and BH study
- eA DVCS study at IP8

New Simulation December Concept is ready

- **Branch used for Diff Tagg r8 (12/7/21)**

- Sartre events for eA diffractive processed successfully.