

π^0 sample: kinematic distributions

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Generated π^0 sample

- **Conditions:**

- 10^5 events
- Unpolarized proton
- 5×41 energy
- No radiative corrections

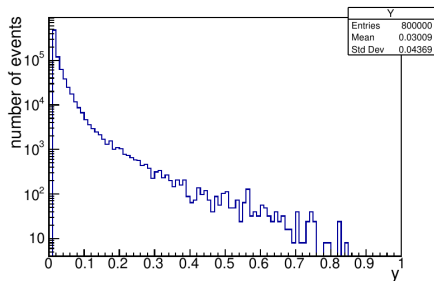
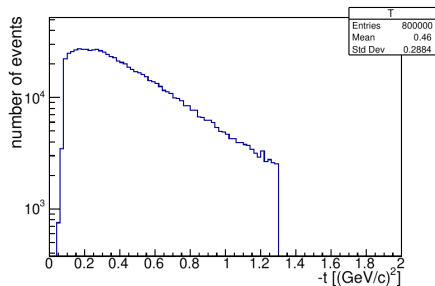
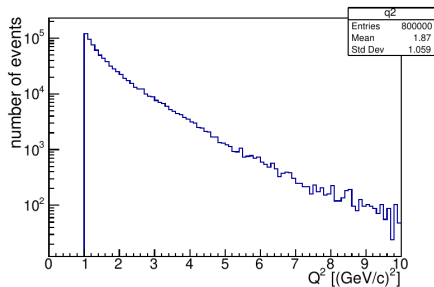
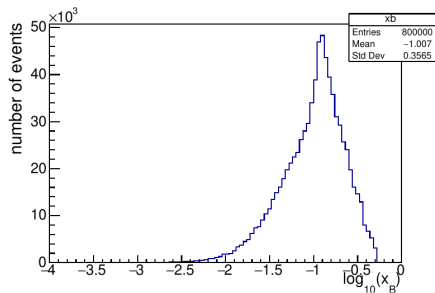
- **Selection:**

- $x_B \in (0.0001, 0.630957)$
- $Q^2 \in (1, 100) \text{ GeV}^2$
- $t \in (-1.3, -0.04) \text{ GeV}^2$
- $y \in (0.01, 0.85)$
- No azimuthal angle cuts

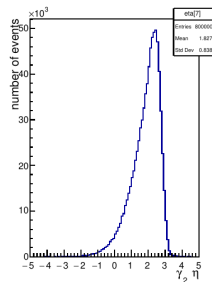
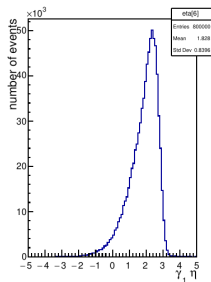
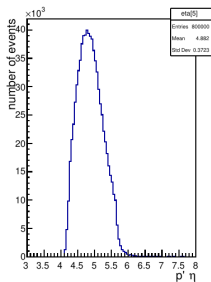
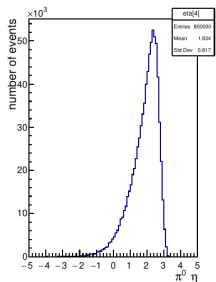
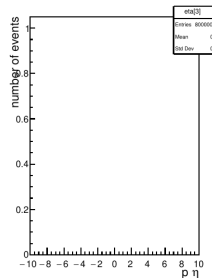
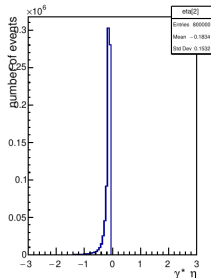
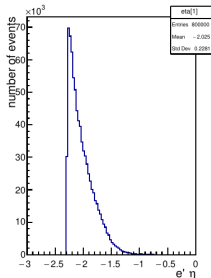
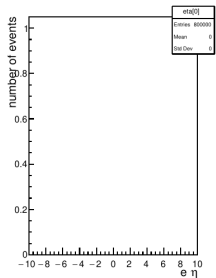
- **Final particles:**

- Incoming (e) and scattered (e') electron
- Photon (γ^*)
- Incoming (p) and scattered (p') proton
- Outgoing pion (π^0)
- Two gammas from π^0 (γ_1, γ_2)

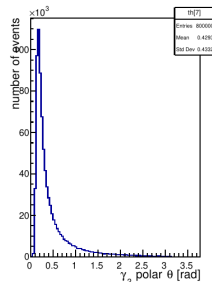
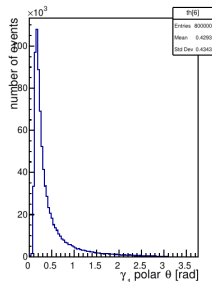
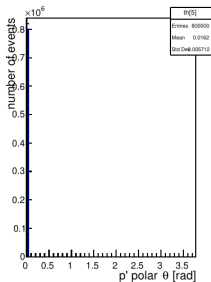
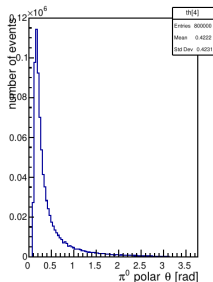
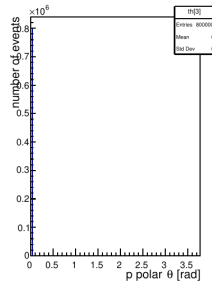
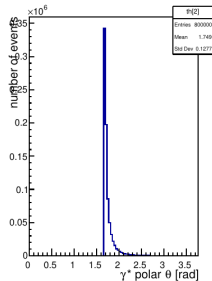
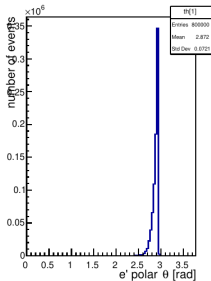
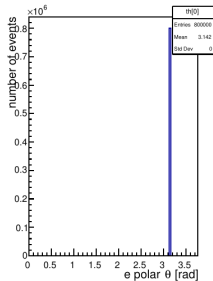
Different kinematic variables



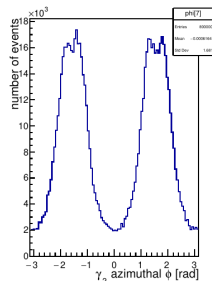
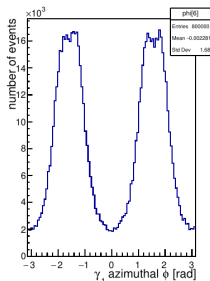
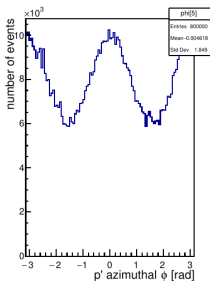
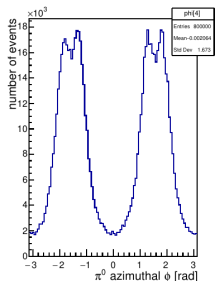
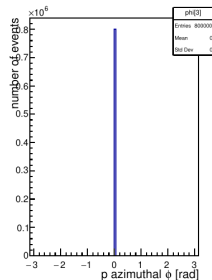
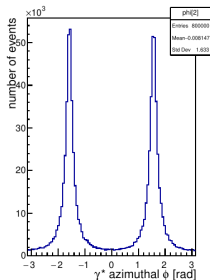
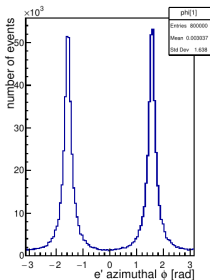
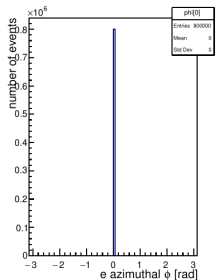
Pseudorapidity



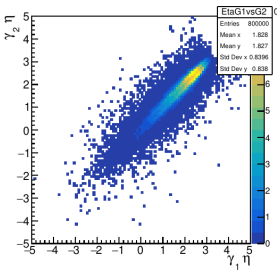
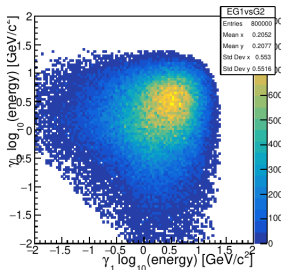
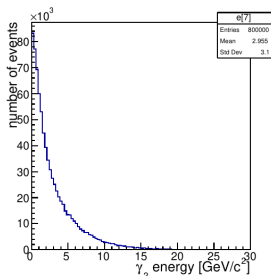
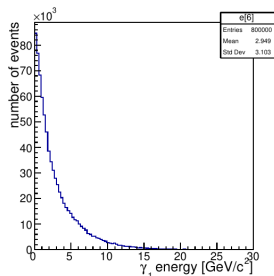
Polar angle



Azimuthal angle



Photons from π^0 : energy and pseudorapidity



Photons from π^0 : angle

