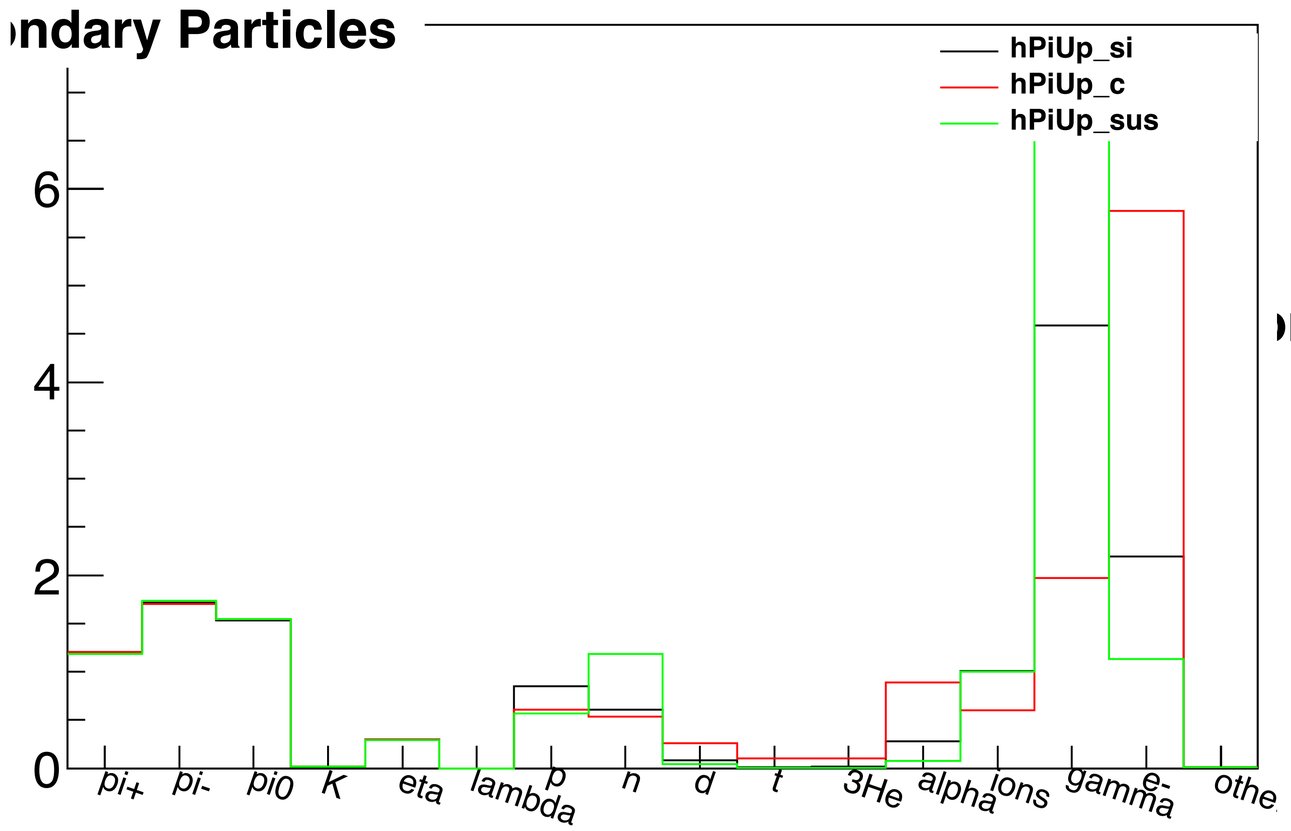
GBAR Meeting (SNU)
(27 July 2016)

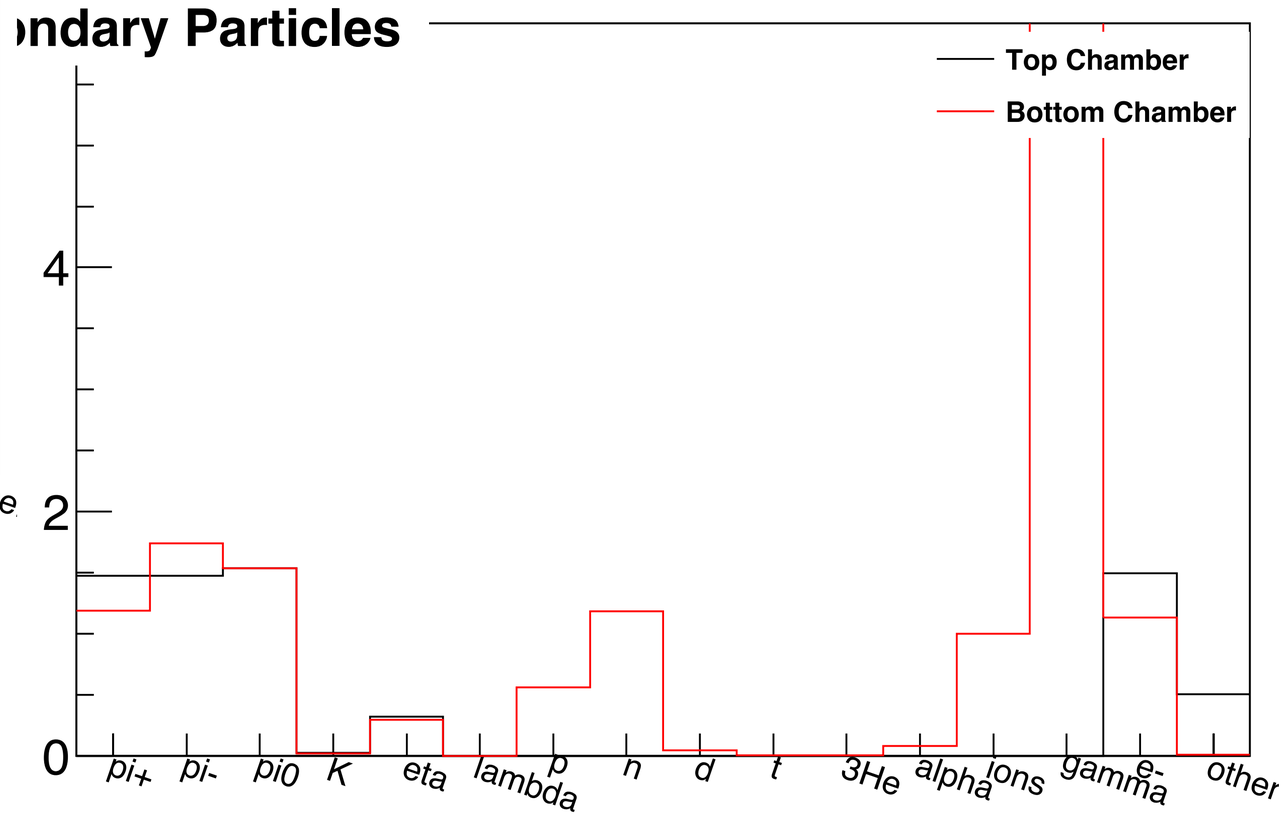
Jongwon Hwang

Sim.: Secondary Particles

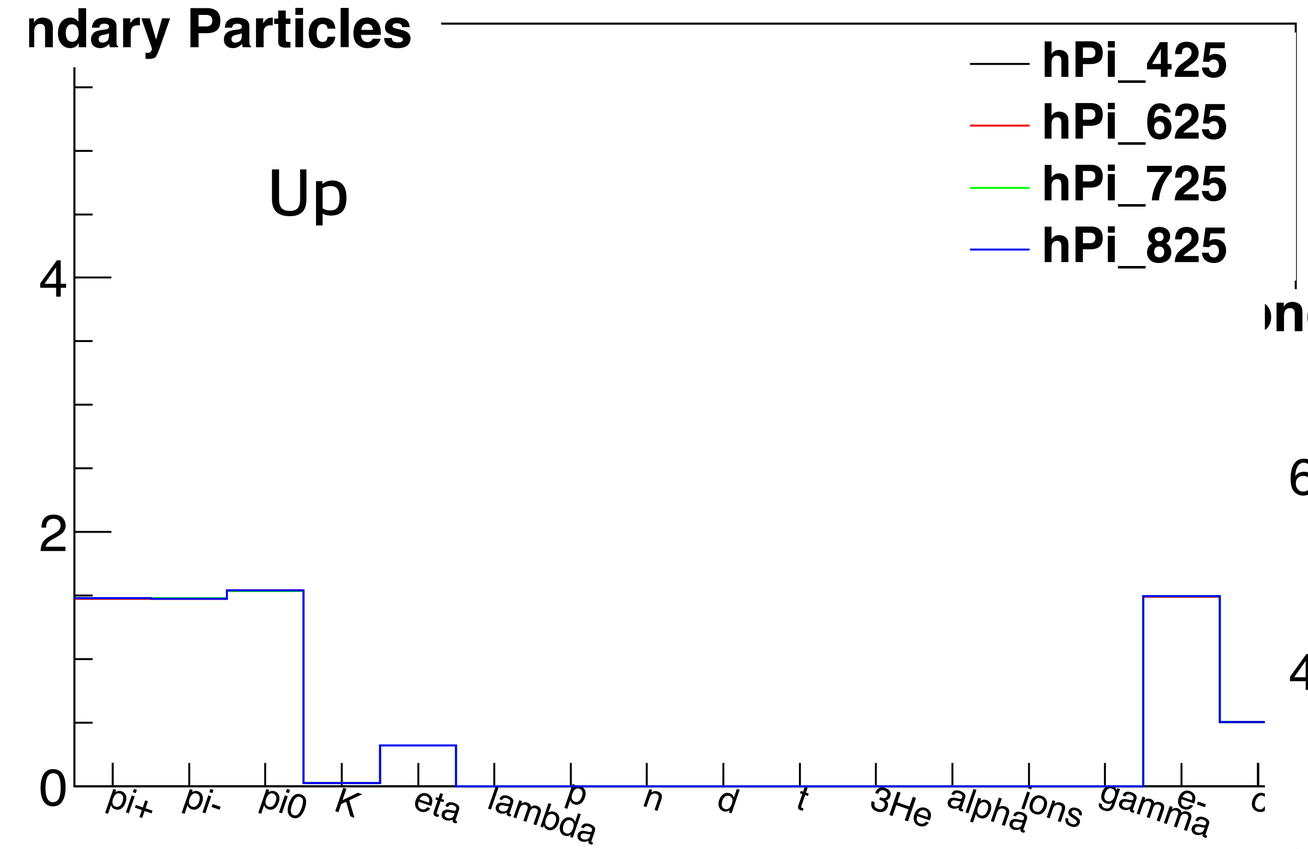
- Checked the secondary particles from the primary anti-proton.
  - In Si & C & SUS (for test, cylinder with r = 5 mm and l = 10 mm)
  - In the Chamber Top (l = 30 mm) & Bottom (l = 3 mm) (SUS)
  - Material dependency
  - Geometry dependency (Why?)
  - No top detector height dependency

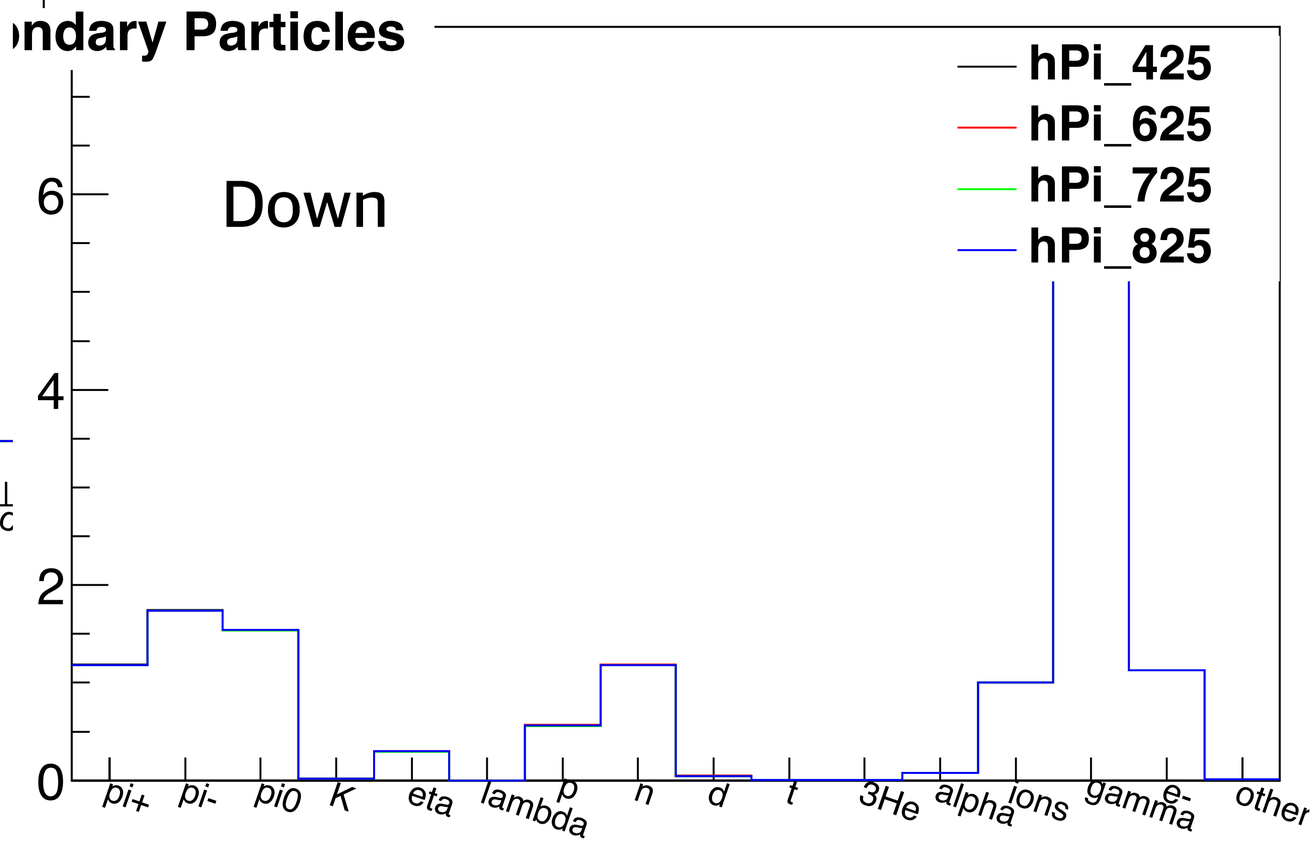
Sim.: Secondary Particles





Sim.: Secondary Particles

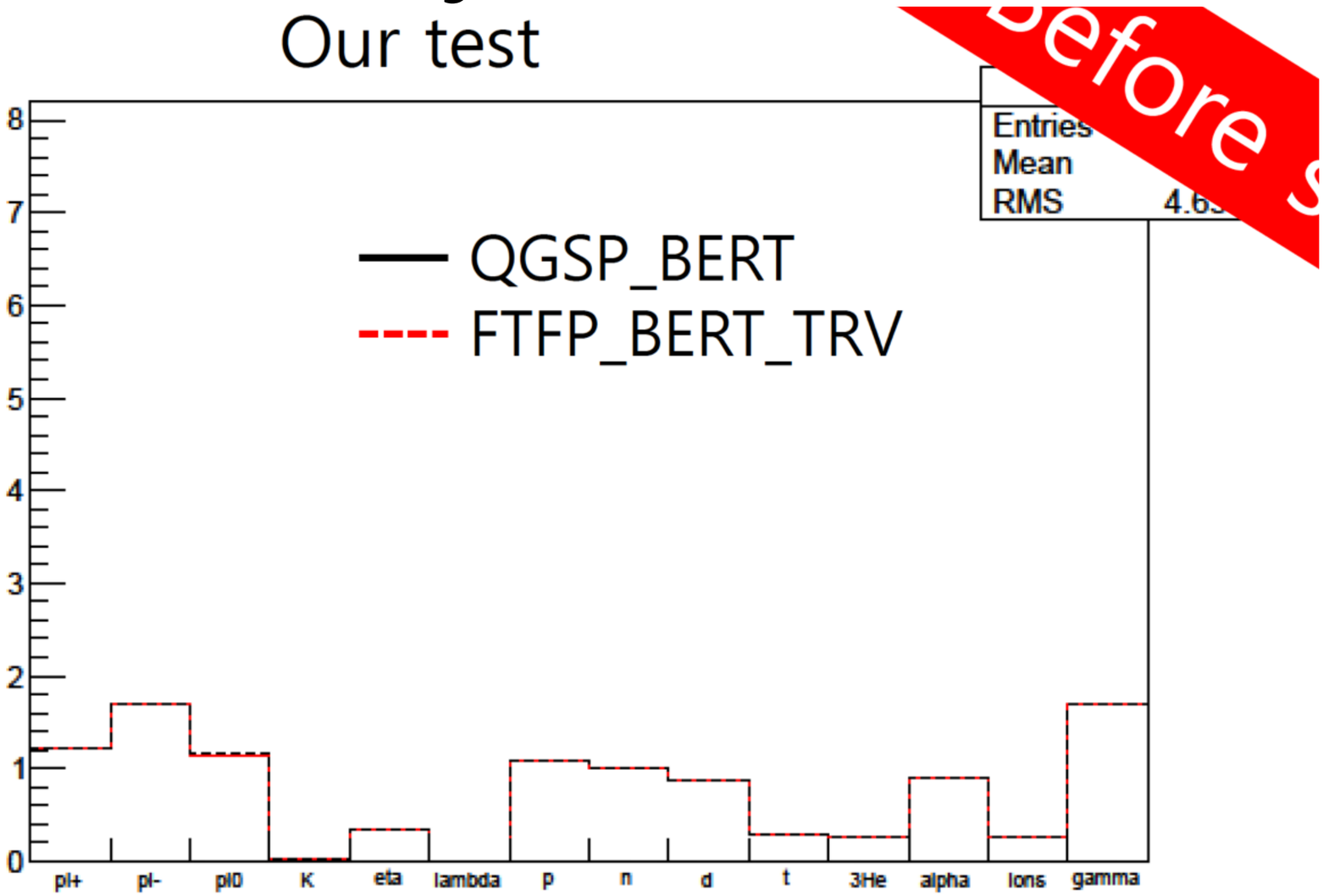




Sim.: Secondary Particles

Previous presentation
by Dr. Kim

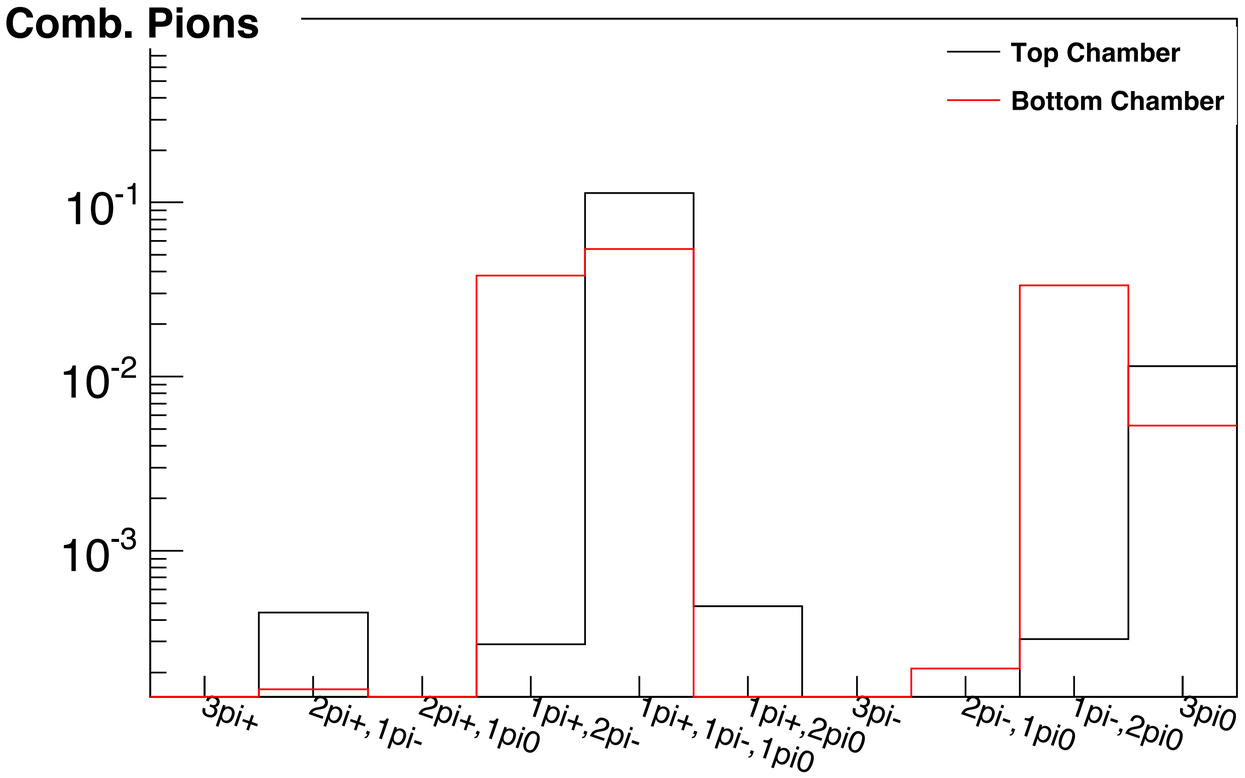
(Which condition?)

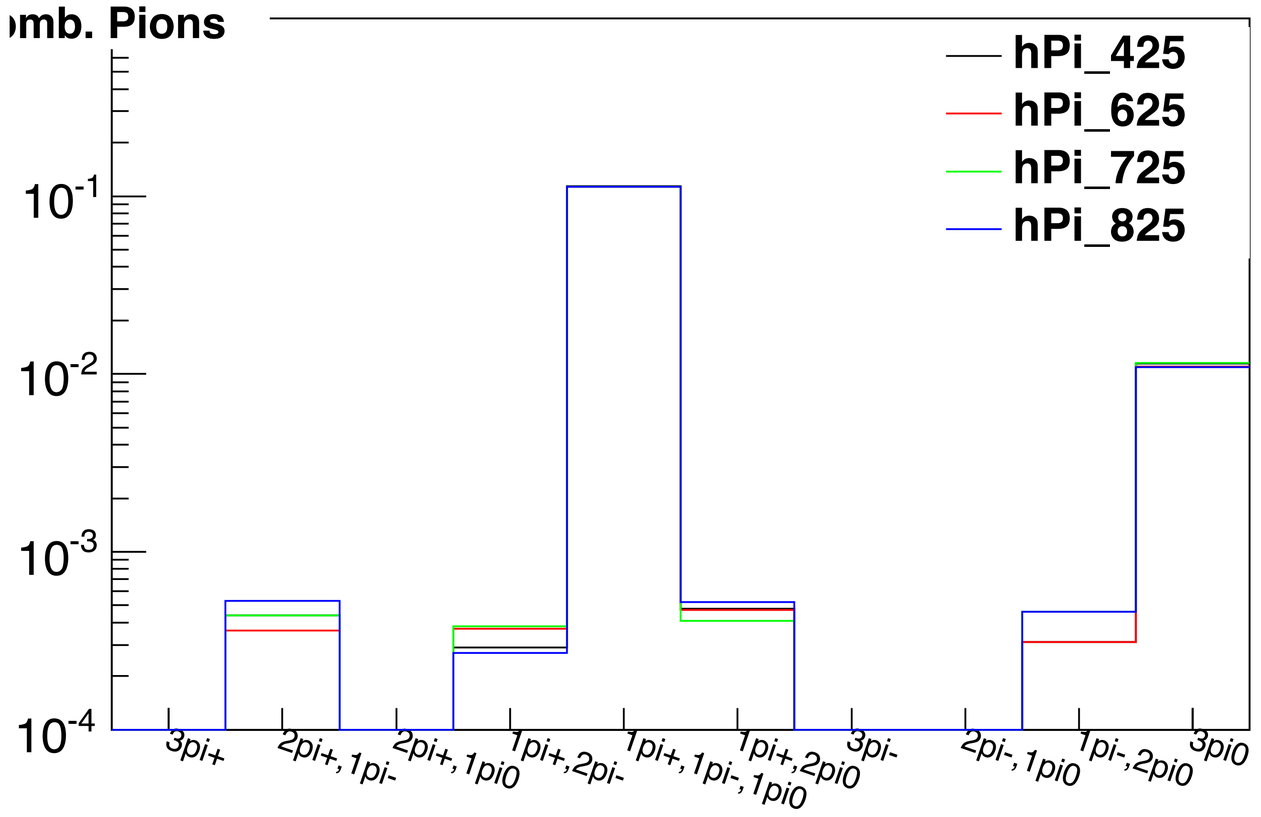


Sim.: 3-Pion Events

- Checked the 3-pion events from the primary anti-proton.
  - anti-proton in the Chamber Top (l = 30 mm) & Bottom (l = 3 mm) (SUS)
  - Top / Bottom: Different result
  - No top detector height dependency

Sim.: 3-Pion Events

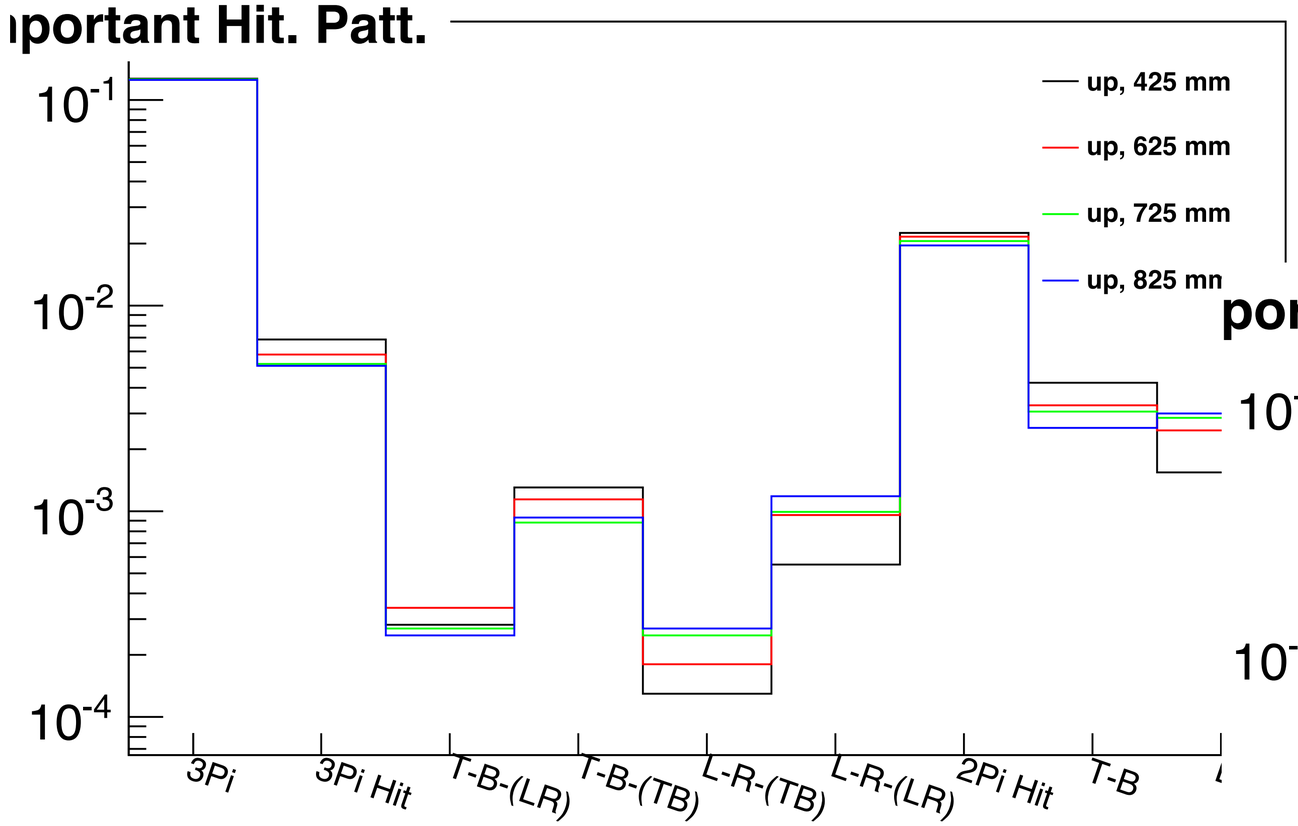


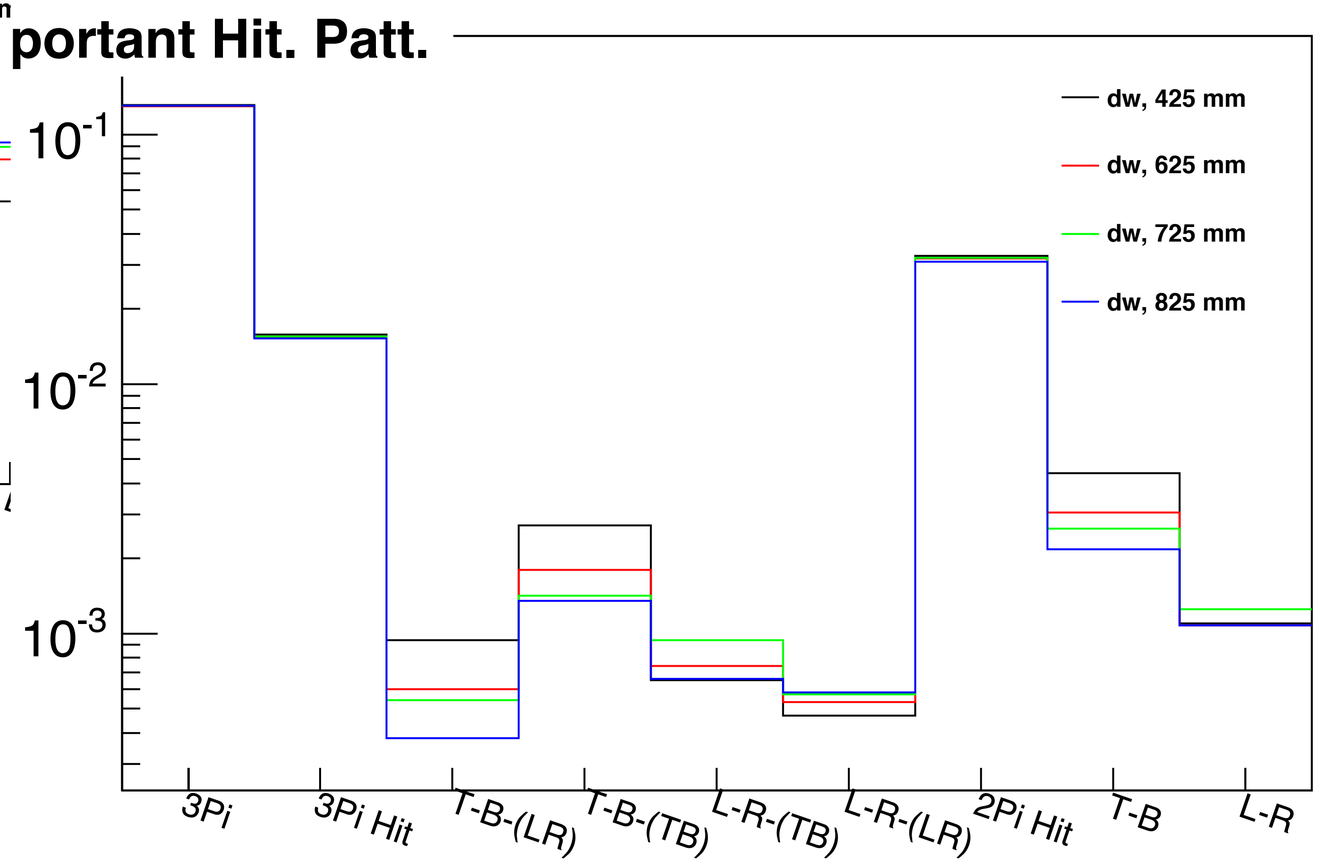


Sim.: 3-Pion Events Eff.

- Checked the geometrical eff. of 3-pion events
- anti-proton in the Chamber Top (l = 30 mm) & Bottom (l = 3 mm) (SUS)
  - Top / Bottom: Different result
  - No top detector height dependency

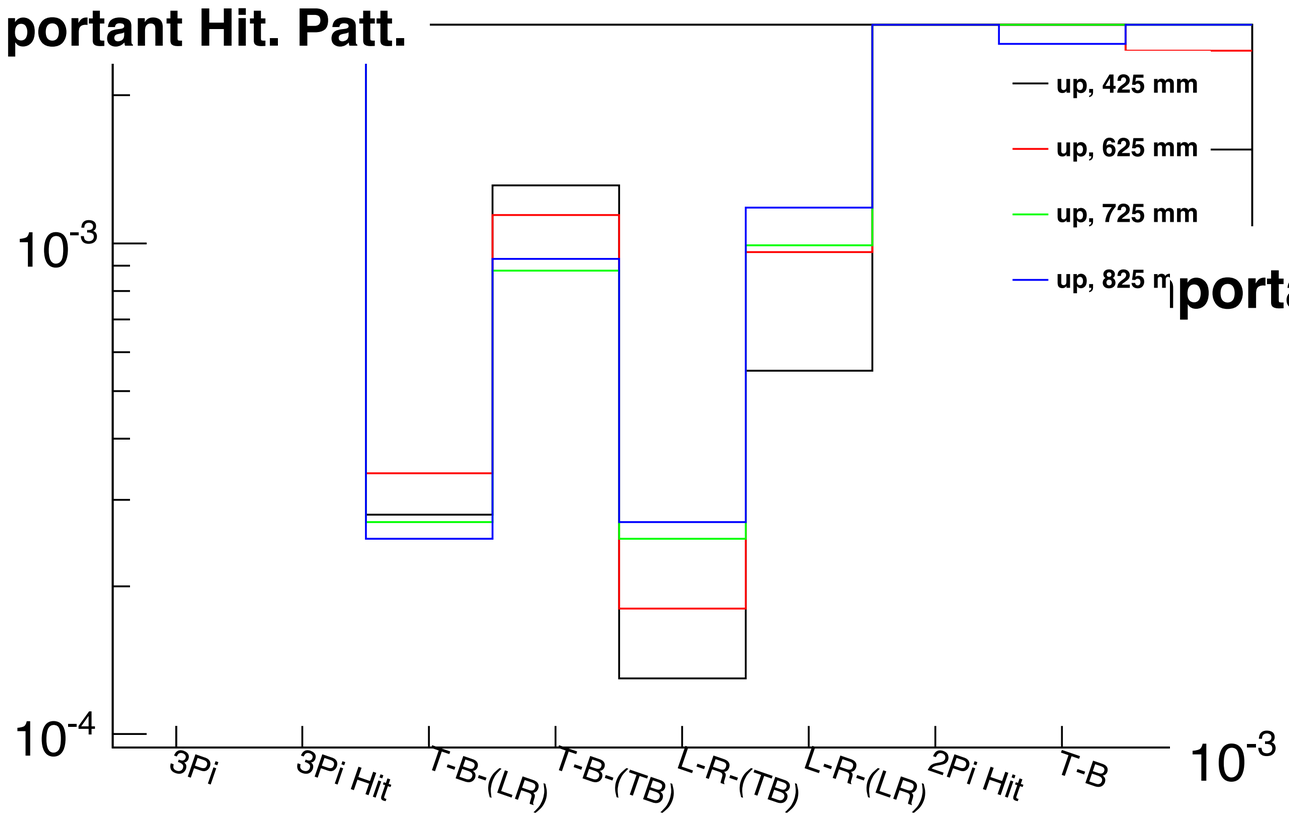
Sim.: 3-Pion Events

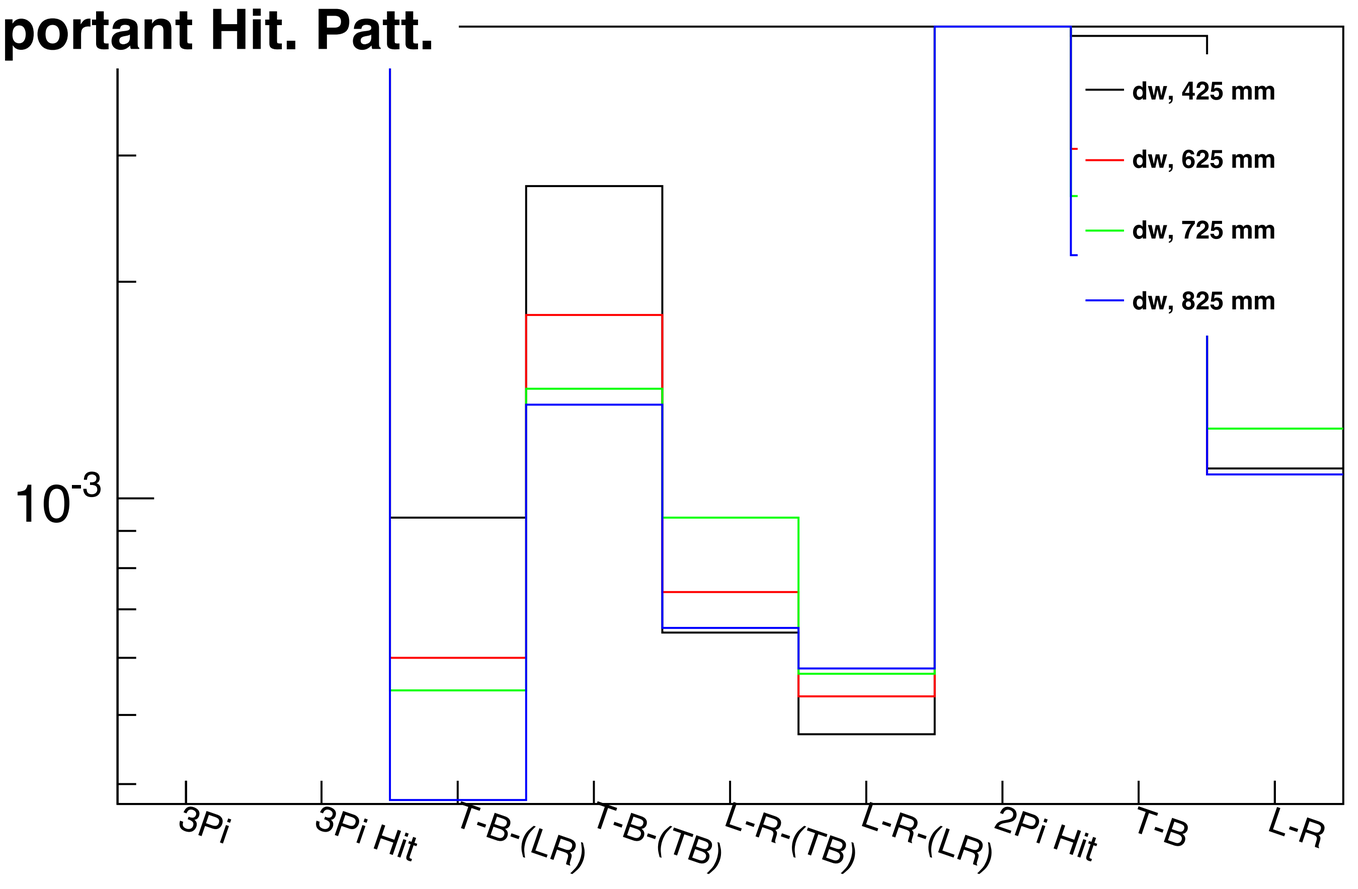




height↑: L-R hits↑ (area↑)
T-B hits↓ (Ω↓)

Sim.: 3-Pion Events





height↑: L-R hits↑ (area↑)
T-B hits↓ (Ω↓)