

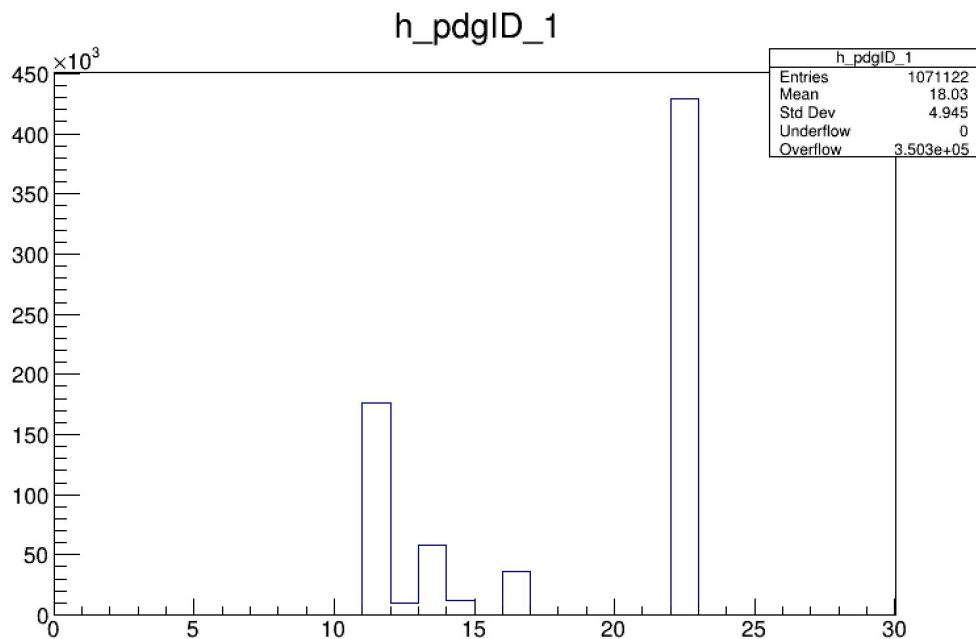
# C3 Beam Background Studies

Elias Mettner - May 22, 2023

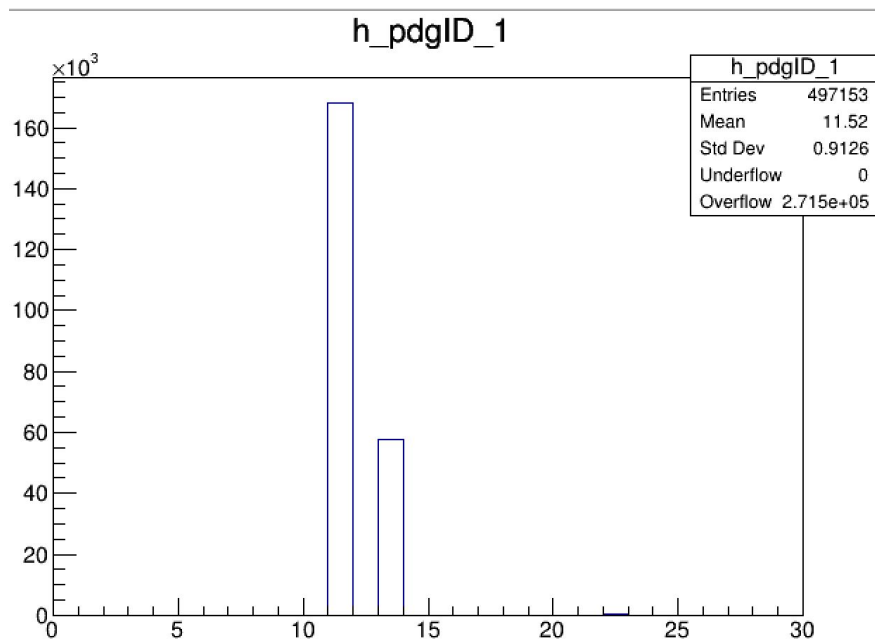
# Updates:

- Presentation given at LCWS last Thursday
  - Lots of great feedback and things to do!
- Plotted pdgID more thoroughly (next page)

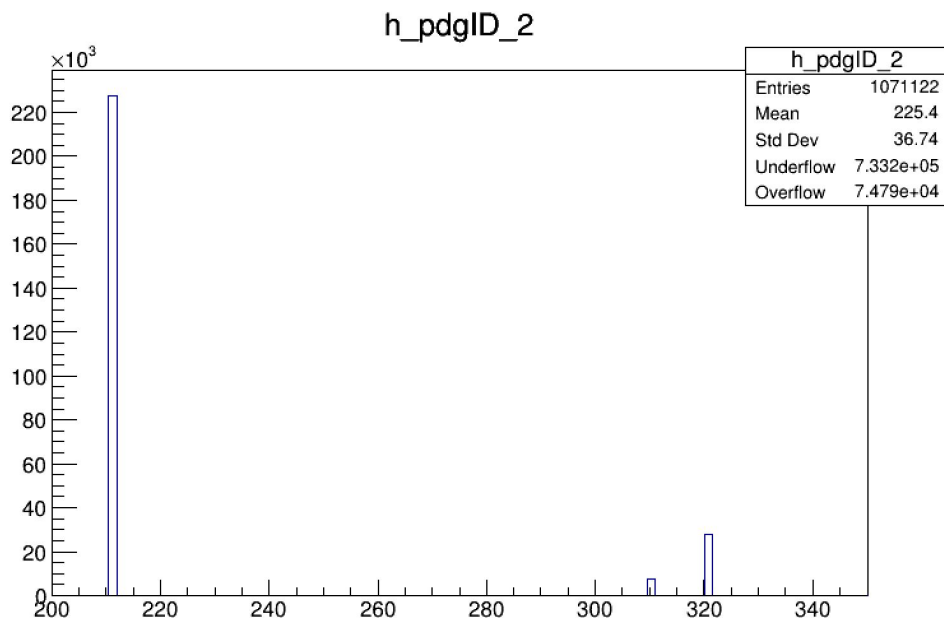
# pdgID with Hits at 0



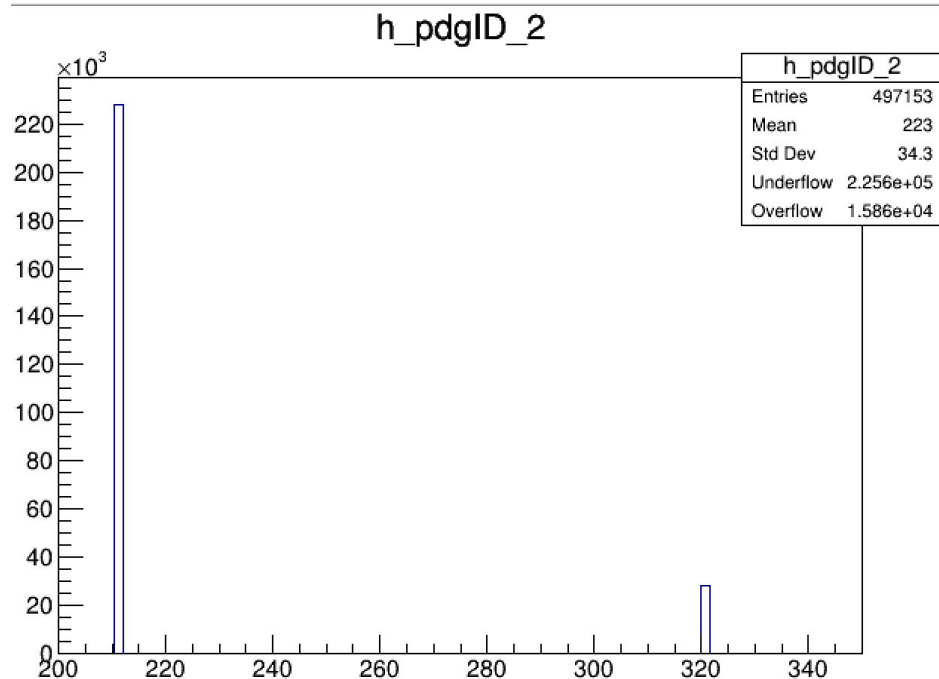
# Without



# pdgID with Hits at 0

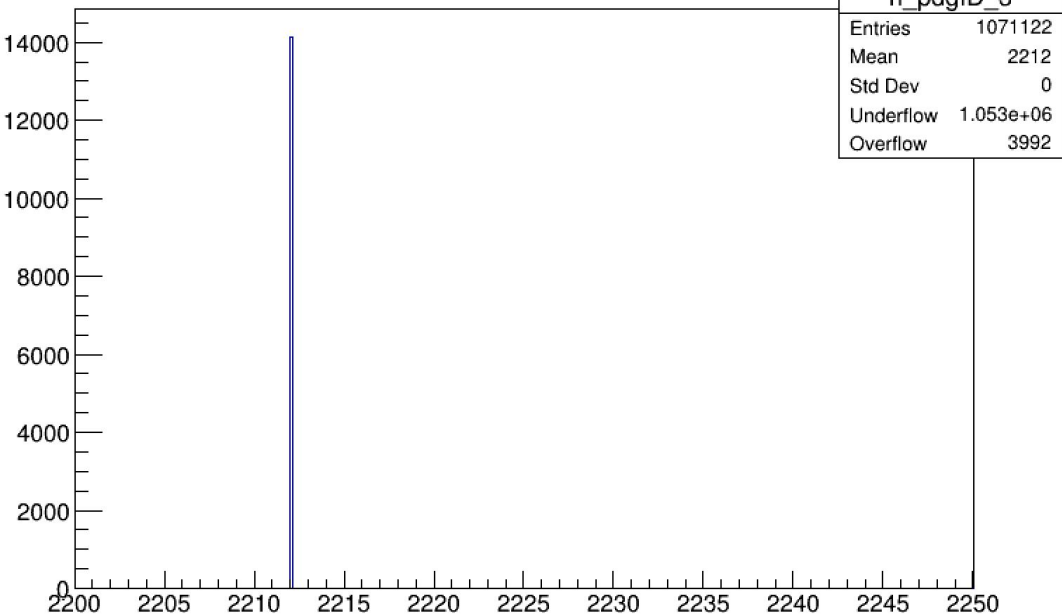


# Without



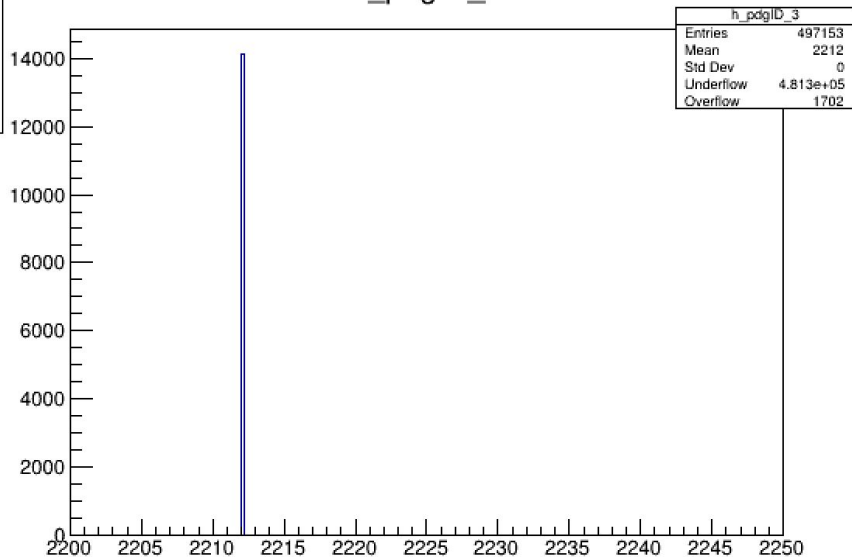
# pdgID with Hits at 0

h\_pdgID\_3



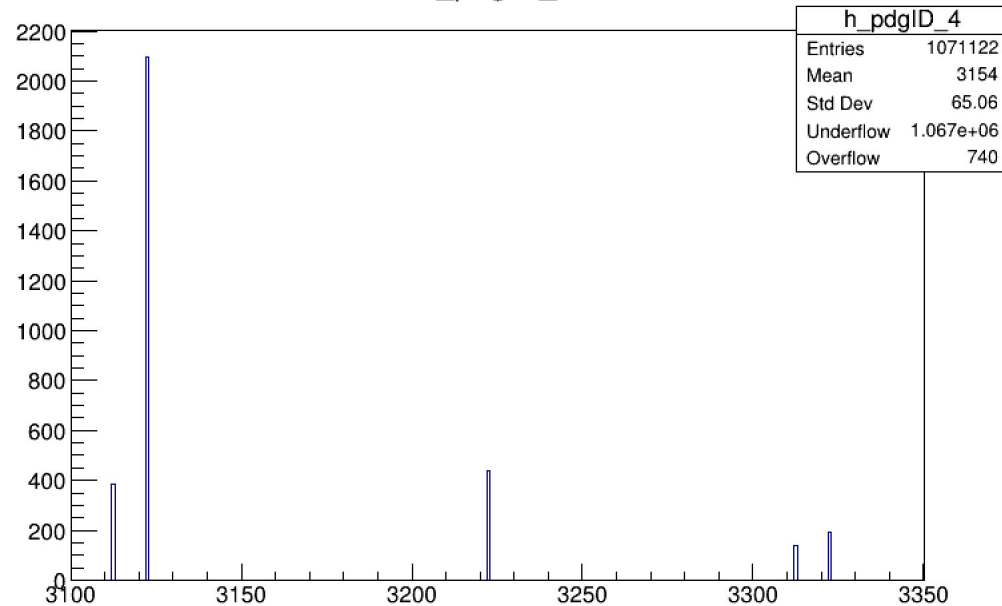
# Without

h\_pdgID\_3



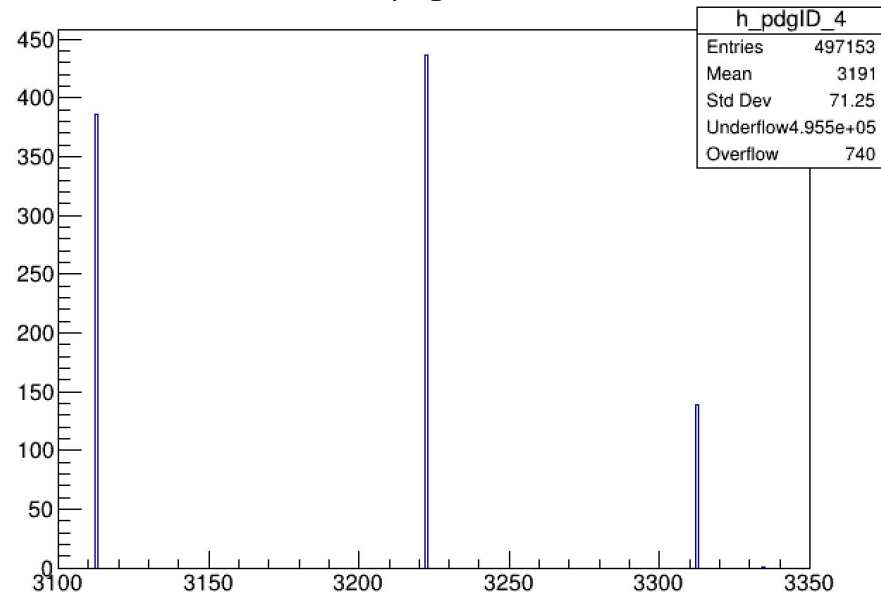
# pdgID with Hits at 0

h\_pdgID\_4



# Without

h\_pdgID\_4



# Next Steps

- Are any of these larger pdgID value particles important?
- Want to look at parentage info of these particles as well (maybe to find  $\pi^0$ )
  - Will require root->parquet file conversion like we did last winter
- Also look into LCWS suggestions