

# Background

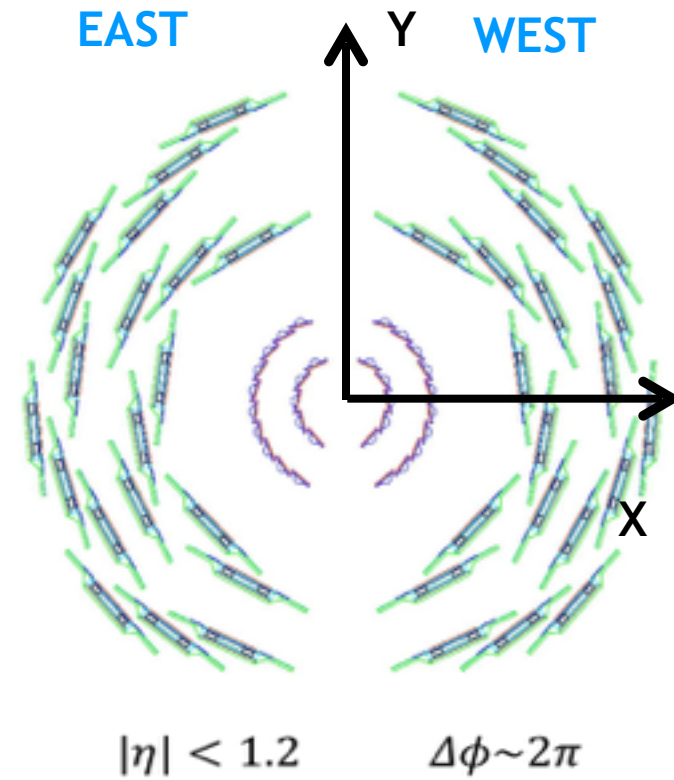
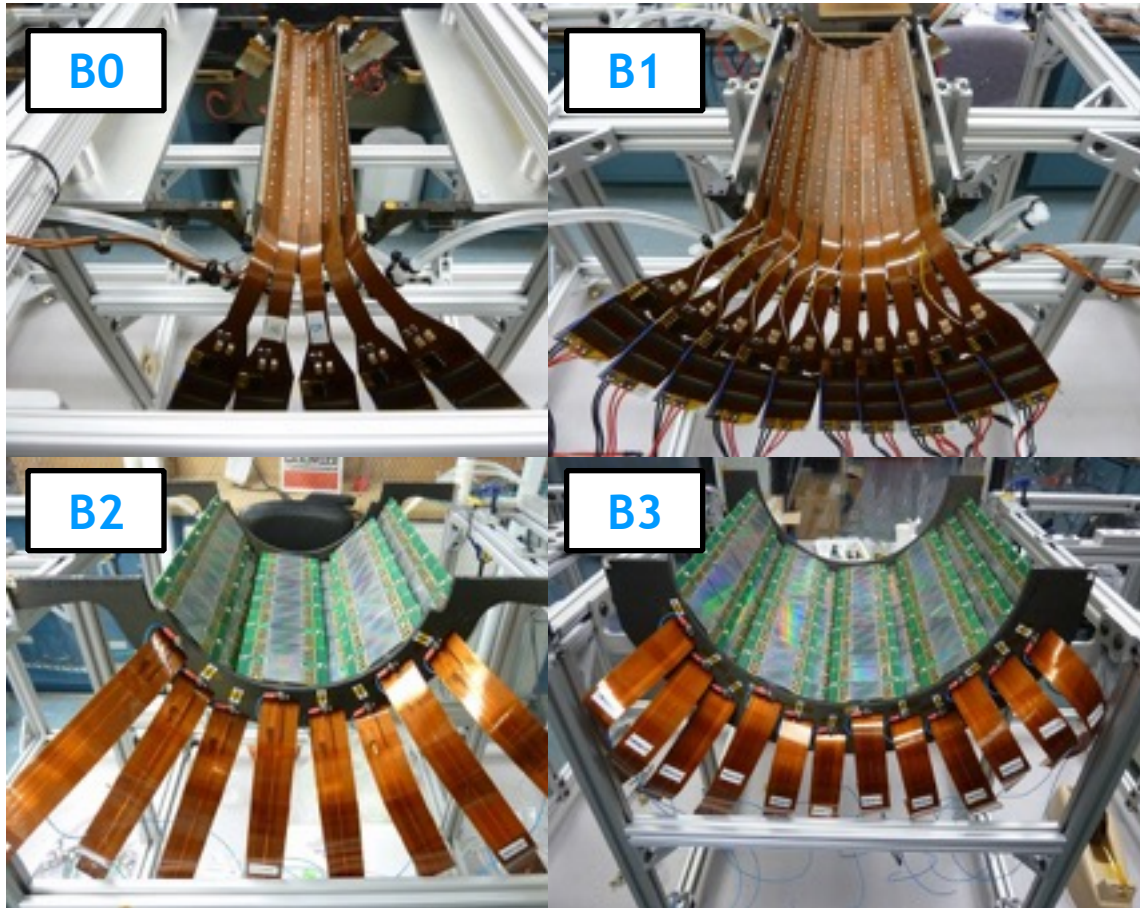
## Taebong Moon (太峯 文)

- 2010
  - Earned a bachelor's degree at Pukyong National Univ.
  - Attend Yonsei Univ. to go to graduate school.
- 2013
  - Joined PHENIX and RIKEN
  - First VTX expert shift
  - D0 analysis
- 2014
  - Run14 VTX alignment
- 2015
  - Run13 charged pion analysis (June)

# Daily Life

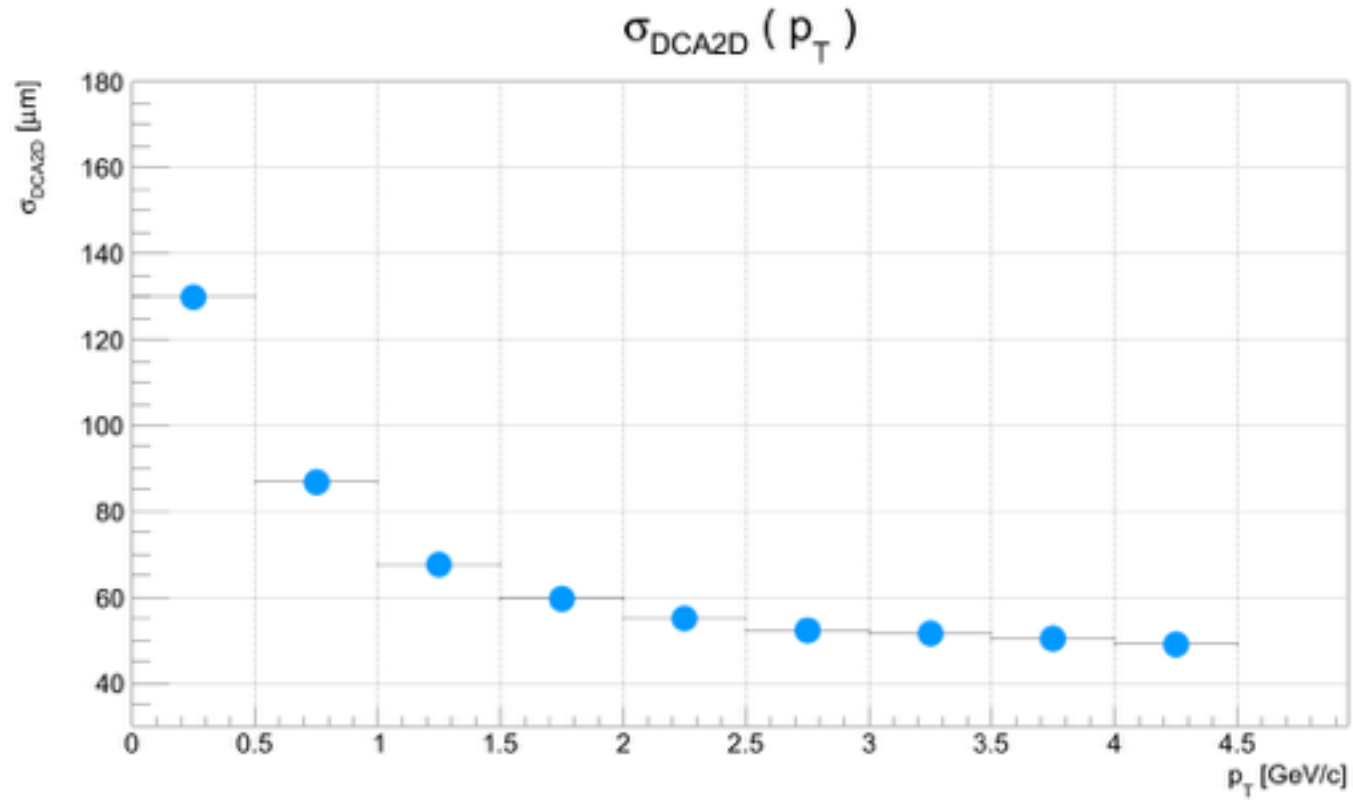


# Silicon Vertex Tracker (VTX)

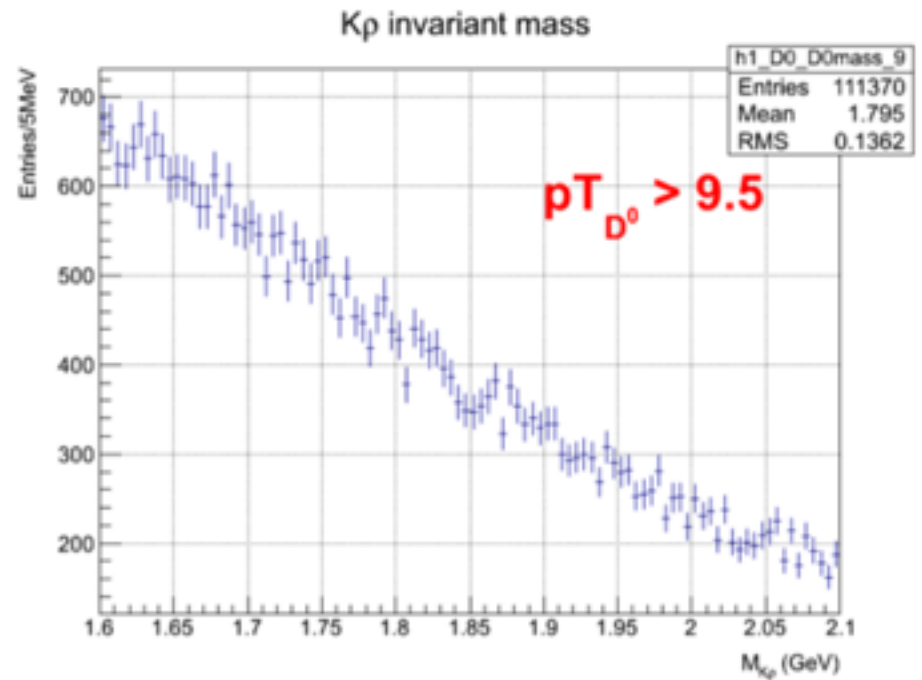
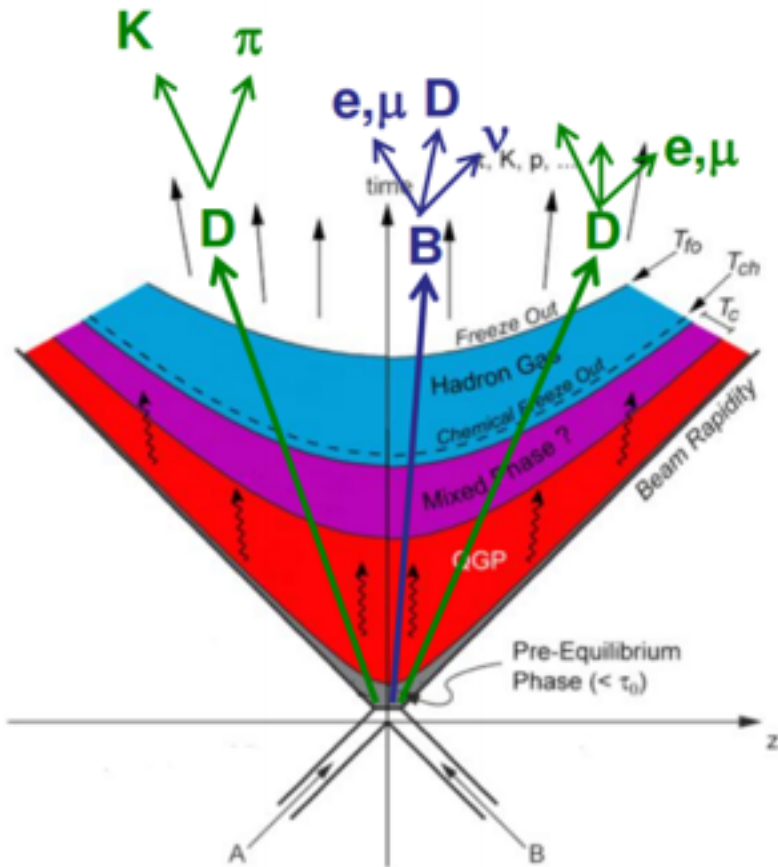


- Primary and secondary vertices with a high resolution ( $<100\mu\text{m}$  for  $p_T > 1\text{GeV}/c$ ).
- Tracking performance in conjunction with PHENIX main central tracker.
- Required to measure VTX sensor positions as precise as possible.

# VTX alignment result



# D0 analysis



# Charged pion analysis

- charged pions are useful for constraining  $\Delta g$ .

$$\Delta g > 0 \rightarrow A_{LL}(\pi^-) > A_{LL}(\pi^+)$$

$$\Delta g < 0 \rightarrow A_{LL}(\pi^-) < A_{LL}(\pi^+)$$

