

# Updates $\phi$ meson

- Found compiling error in Acceptance Correction code, which processes Tuples from PYTHIA simulation.
  - Need to test code, I just found the error last night with Dmitri Smirnov's help.
- Finished TOF Match Efficiency Fitting for each centrality, eta, phi bin.
  - Currently generating Tuples for efficiency.
- Finished creating Ttrees for  $\phi$  meson same event and mixed event.
- Produced spin alignment histograms for  $|\eta| < 1.5$ .
  - Try 1 overall bin for all pairs of Kaons.
  - Try 3 different bins.
    - K+/- with  $|\eta| < 1.0$  (TOF + TPC)
    - K+/- with  $|\eta| < 1.0$  (TOF + TPC) && K-/+ with  $1.0 < |\eta| < 1.5$  (TPC only)
    - K+/- with  $1.0 < |\eta| < 1.5$  (TPC only)

# Updates $K^*$ v2

- Convenors would like me to use only TPC to identify  $K^{+/-}$  and  $\pi^{+/-}$ .
  - I will run this over the weekend since it will take a while.