

0.1 K^\pm Track Selection

Charged kaons are identified using the AliFemtoESDTrackCutNSigmaFilter class. The specific cuts used in this analysis are as follows:

- PID Probabilities:
 - K: > 0.2
 - π : < 0.1
 - μ : < 0.8
 - p: < 0.1
- Most probable particle type must be Kaon (fMostProbable=3)
- $0.14 < p_T < 1.5$
- $|\eta| < 0.8$
- Minimum number of clusters in the TPC (fminTPCncls) = 80
- Remove particles with any kink labels (fRemoveKinks = true)
- Maximum allowed χ^2/N_{DOF} for ITS clusters = 3.0
- Maximum allowed χ^2/N_{DOF} for TPC clusters = 4.0
- Maximum allowed sigma to primary vertex (fMaxSigmaToVertex) = 3.0
- Maximum XY impact parameter = 2.4
- Maximum Z impact parameter = 3.0
- TPC and TOF N_σ cuts:
 - $p < 0.4$ GeV/c: $N_{\sigma K, TPC} < 2$
 - $0.4 < p < 0.45$ GeV/c: $N_{\sigma K, TPC} < 1$
 - $0.45 < p < 0.8$ GeV/c: $N_{\sigma K, TPC} < 3$ & $N_{\sigma K, TOF} < 2$
 - $0.8 < p < 1.0$ GeV/c: $N_{\sigma K, TPC} < 3$ & $N_{\sigma K, TOF} < 1.5$
 - $p > 1.0$ GeV/c: $N_{\sigma K, TPC} < 3$ & $N_{\sigma K, TOF} < 1$
- Electron Rejection: Reject if $N_{\sigma e^-, TPC} < 3$
- Pion Rejection: Reject if:
 - $p < 0.65$
 - * if TOF and TPC available: $N_{\sigma \pi, TPC} < 3$ & $N_{\sigma \pi, TOF} < 3$
 - * else
 - $p < 0.5$: $N_{\sigma \pi, TPC} < 3$
 - $0.5 < p < 0.65$: $N_{\sigma \pi, TPC} < 2$
 - $0.65 < p < 1.5$: $N_{\sigma \pi, TPC} < 5$ & $N_{\sigma \pi, TOF} < 3$
 - $p > 1.5$: $N_{\sigma \pi, TPC} < 5$ & $N_{\sigma \pi, TOF} < 2$