Group Meeting Update

Y. Okugawa¹ A. Irles² R. Yonamine¹ F. Richard² R. Pöschl²

¹Tohoku University

²Laboratoire de l'Accélérateur Linéaire

January 28, 2019







Updates

Updates

- Purity behavior after applying VR when identifying exactly the same number of B hadrons.
- Apply changes in steering file for VR.

Updates

- NotUsedTracksCollectionName TracksFailBothCanFormPfoFlags → MarlinTrkTracks
- UseTracks
 - $0\,\rightarrow\,1$

of Tracks



Charge Purity



Figure: Charge purity after selecting event s.t. MC b# = RC b#.

Charge Purity



Figure: Charge purity before changin setting in steering file

in steering file

dEdx



Figure: The energy deposition per track length dE/dx as function of the particle momentum, the particle polar angle $|\cos \theta|$ for different particles. Two gray lines separate out the region with a maximal kaon concentration.

Nkaons: 54303, nprotons: 4842, npions: 319905

Okugawa (Tohoku U)

Group Meeting



Conclusion

- Purity reduction is independent on number of track that is associated with SV
- Awaiting Adrian's macro on kaon selection