Simulations for KLF

Software Meeting



Stuart Fegan University of York July 30th, 2024



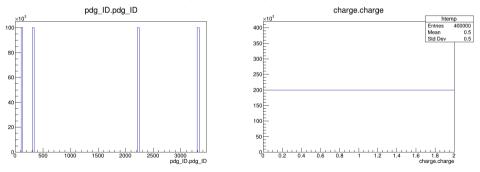


- https://github.com/sdobbs/KLGenerator_hddm_V3 (forked from https://github.com/nickzachariou/KLGenerator_hddm_V3)
- Covers a reasonably comprehensive range of K_{Long} reaction channels on both proton and neutron
- Tunable K_{Long} beam parameters
- Can also generate γp and np events

Status



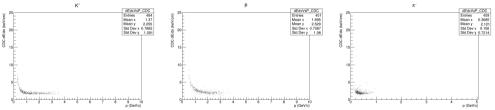
- This study is concerned with $K_{Long}p \to K^+ \Xi^0$
- Raw plots from generated files (100k events);



Status



- Problems processing events at scale (hdgeant4) seem to be resolved
- Reconstruction and smearing steps also work
- Recent bug with ReactionFilter, no beam information in output tree causing DSelector to crash





Generator Ⅲ

Status

