$\lambda_c \rightarrow \pi^+ + K^- + p$ update from sPHENIX MDC-1 charm and bottom samples

Sourav Tarafdar

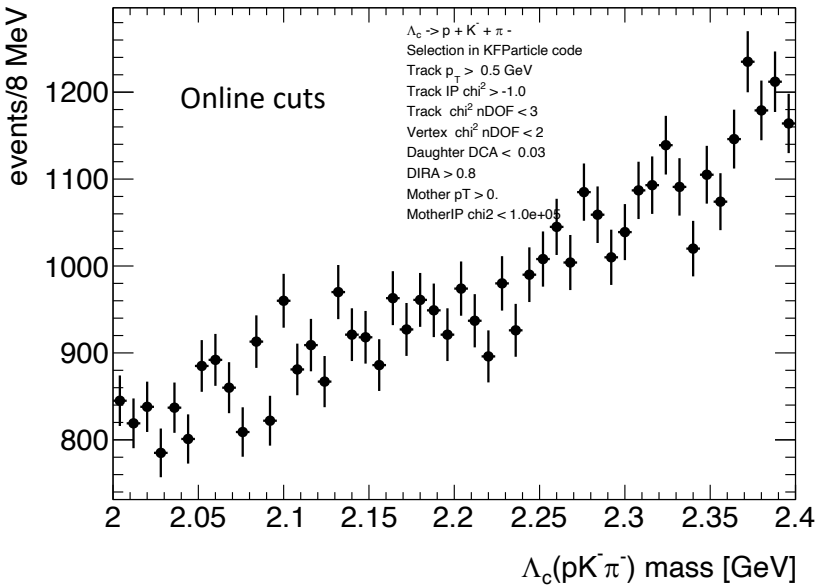
Vanderbilt University

Heavy Flavor topical group meeting

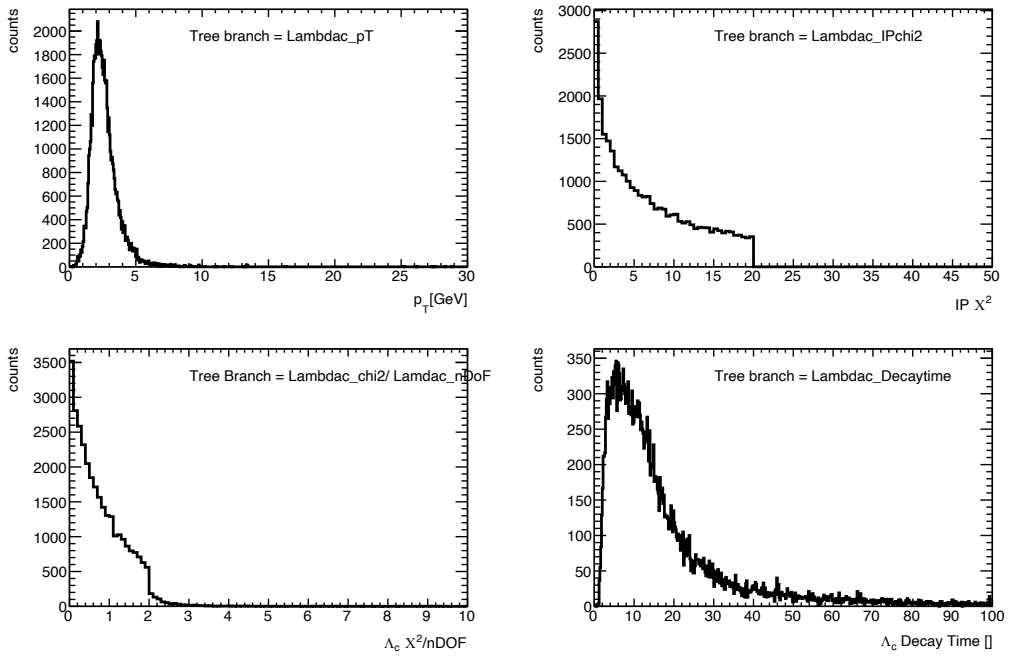
03/08/2021

CHARM Sample

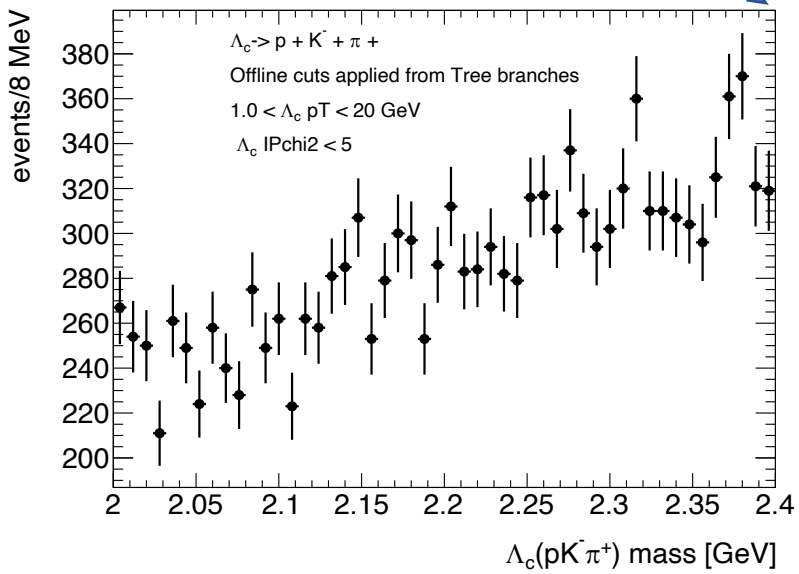
With ACTS vertexing and matched to PV



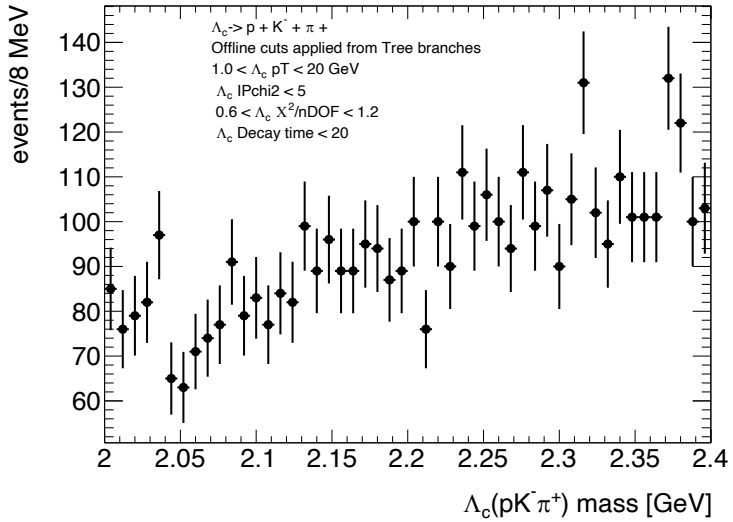
ntuple Lambdac branches used as additional cuts



With offline cuts

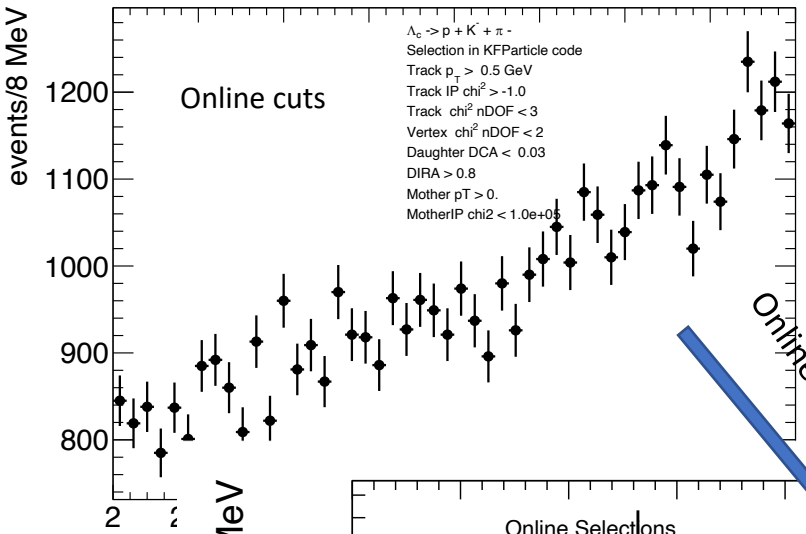


Tighter Offline Cuts



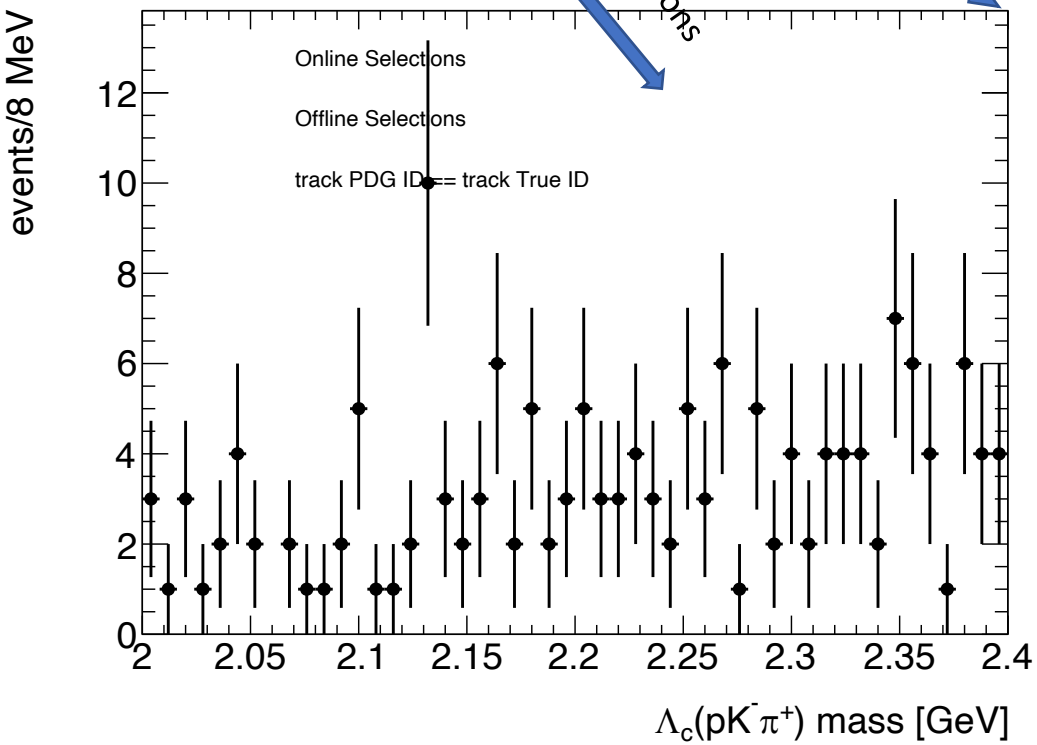
CHARM sample

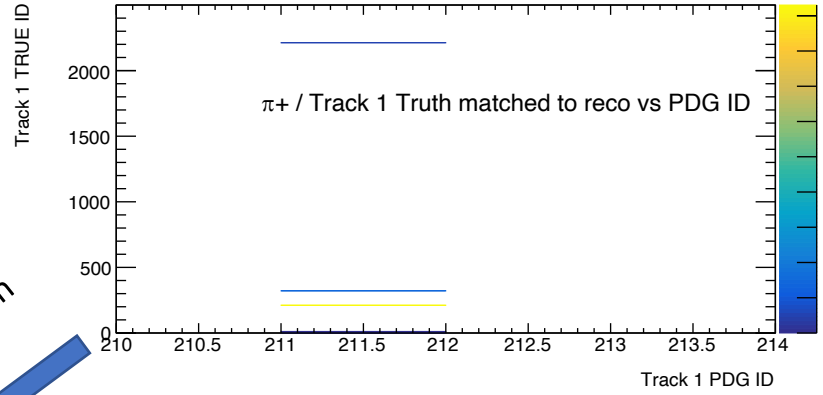
With ACTS vertexing and matched to PV

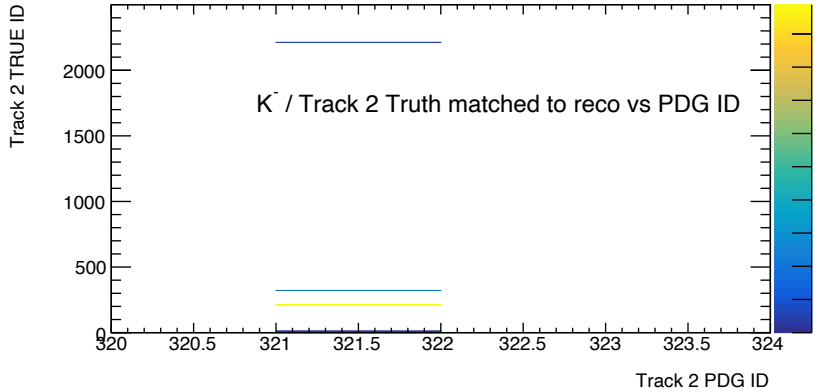


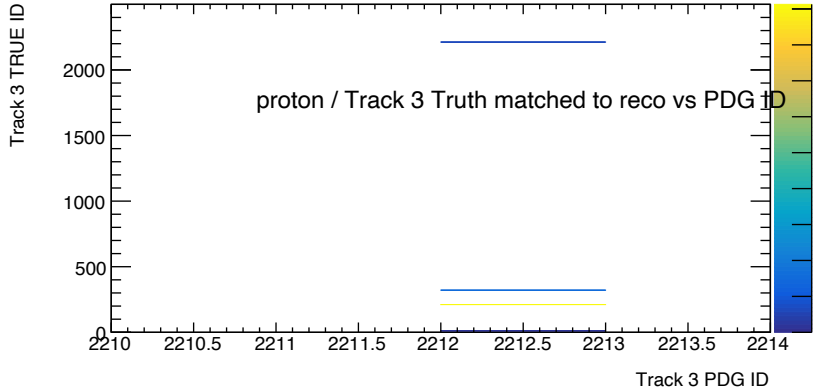
Online selections

MC track ID match



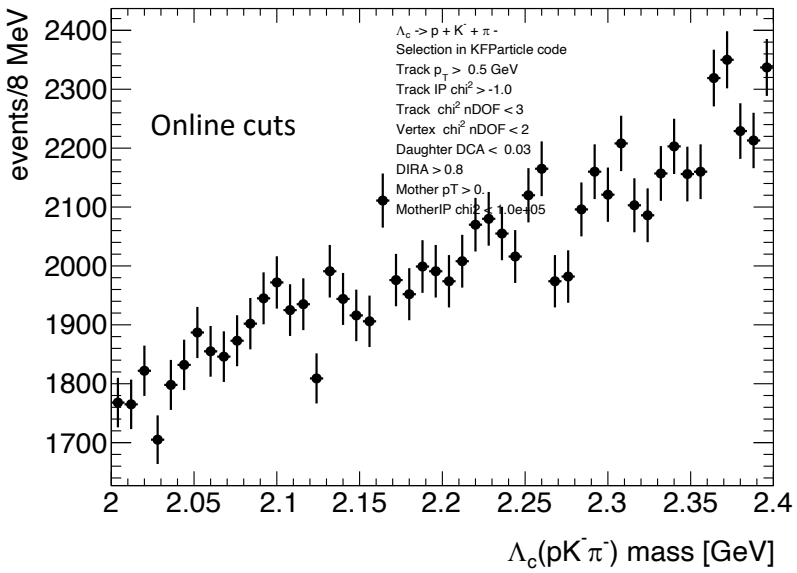




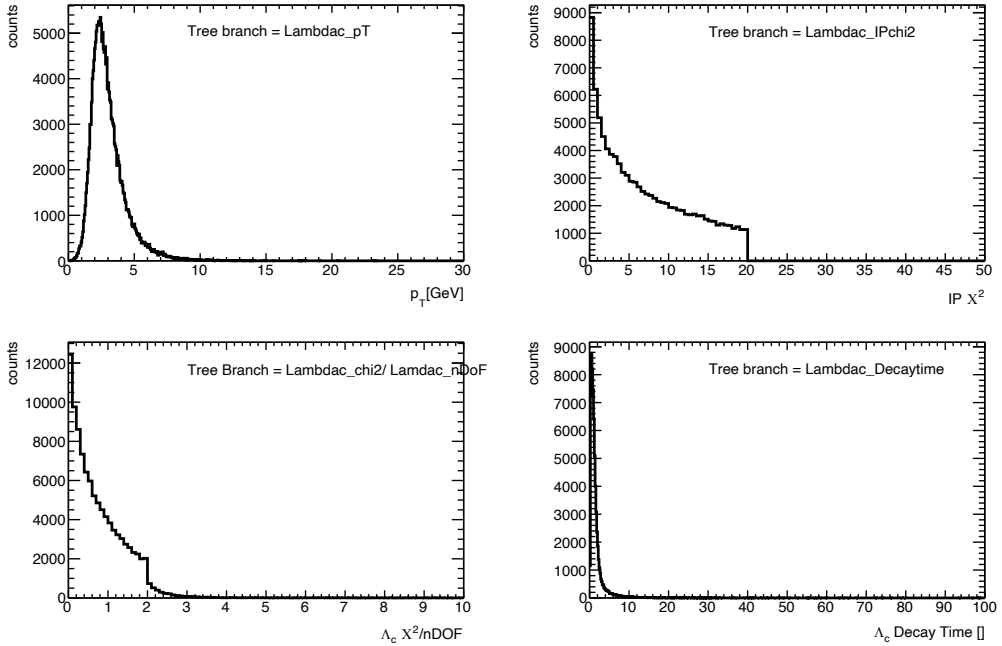


BOTTOM Sample

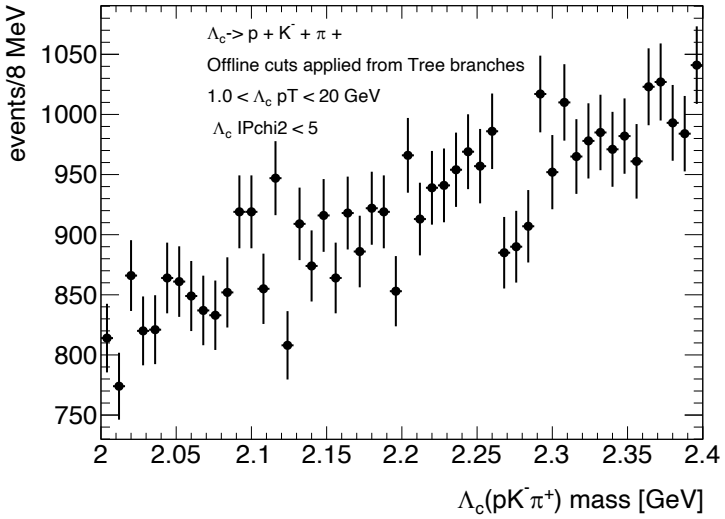
With ACTS vertexing and matched to PV



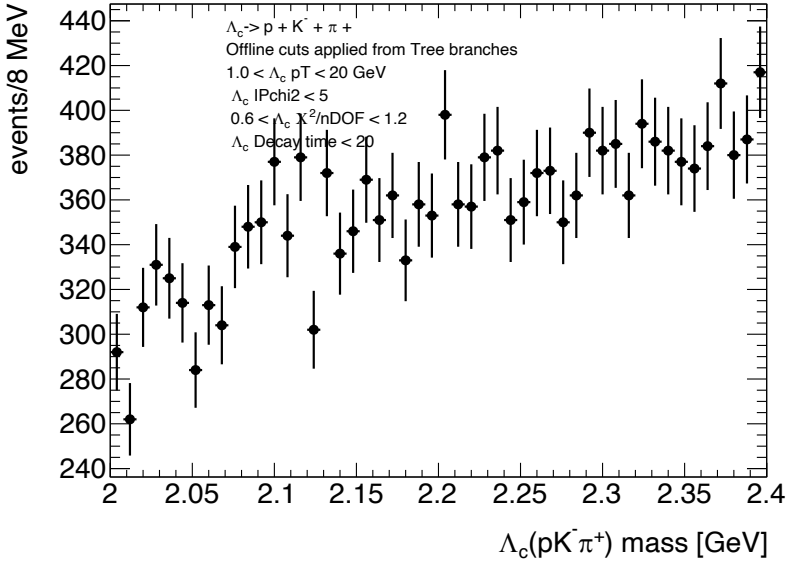
ntuple Lambdac branches used as additional cuts



With offline cuts

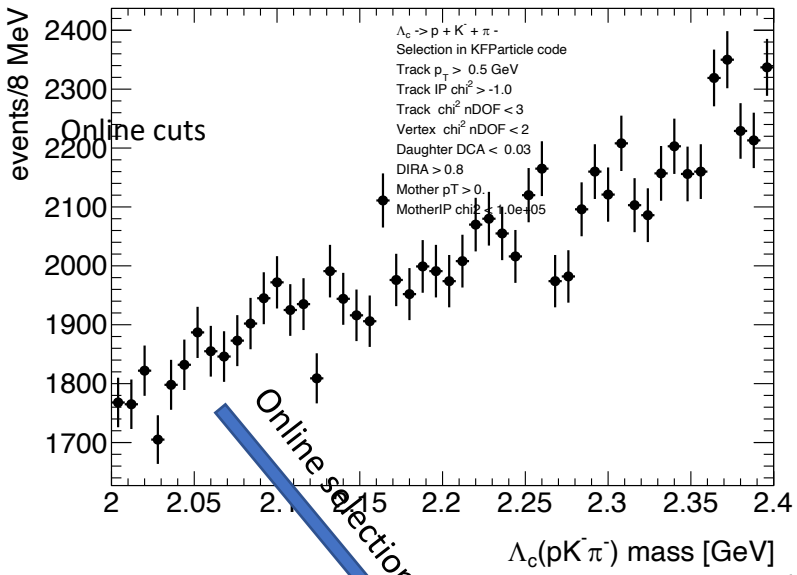


Tighter Offline Cuts



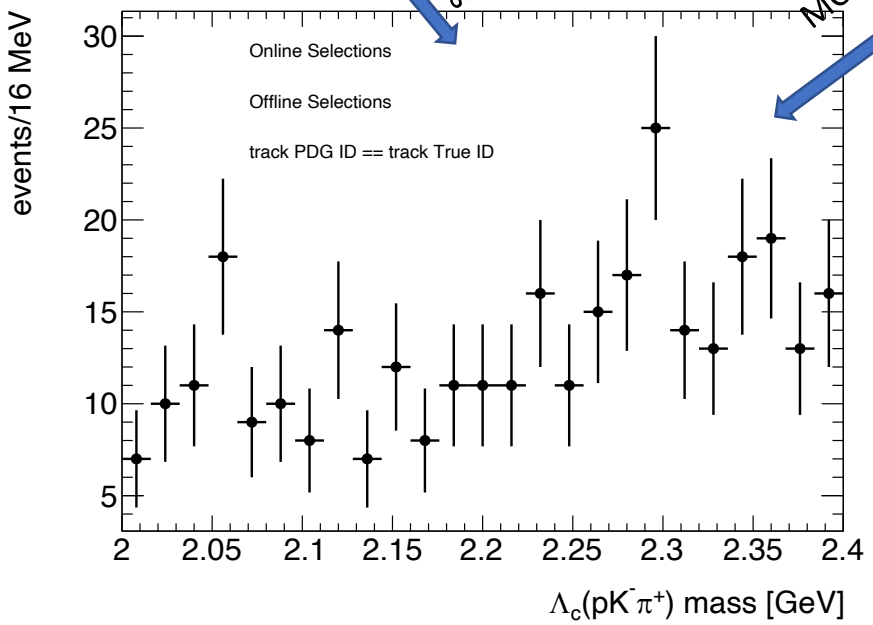
BOTTOM Sample

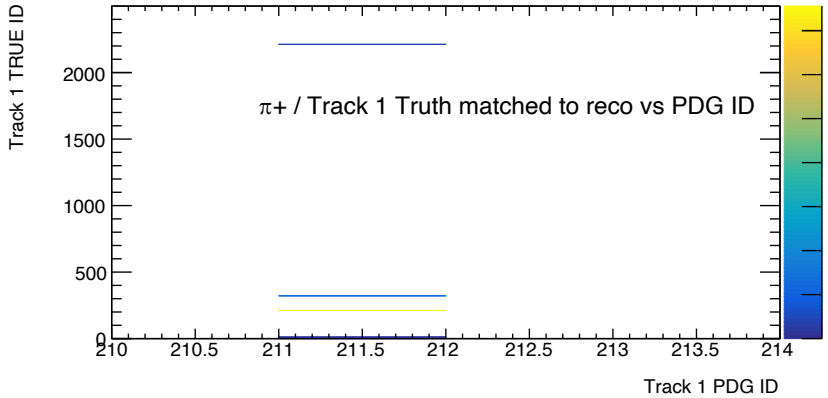
With ACTS vertexing and matched to PV

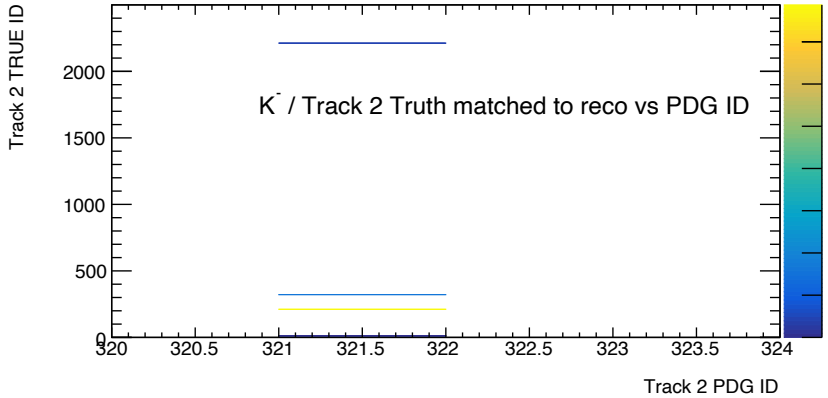


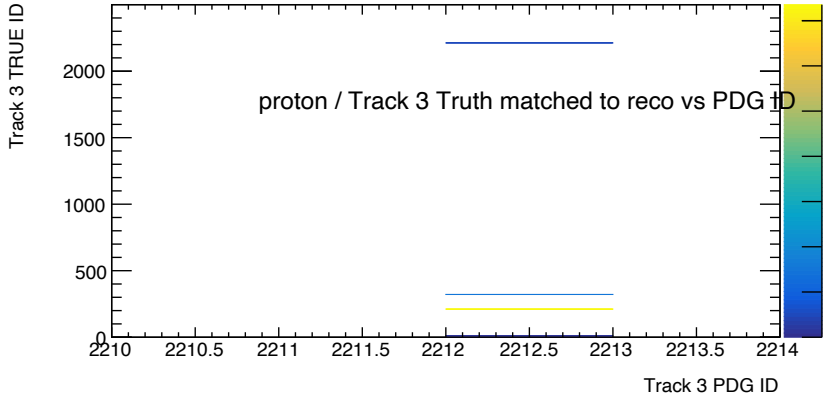
Online selections

MC track ID match



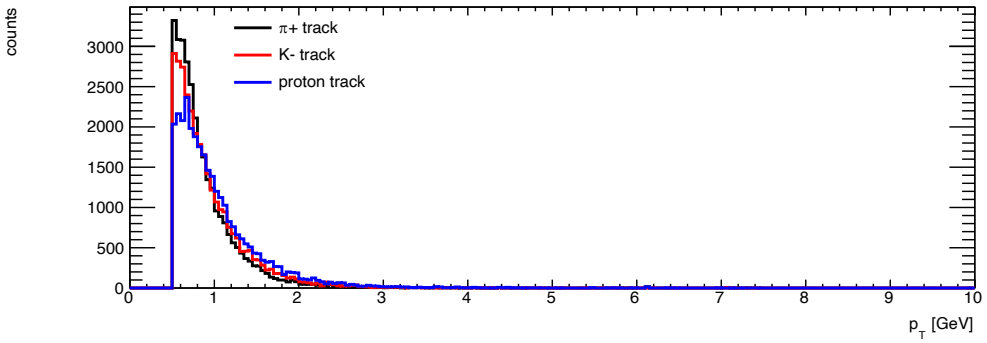


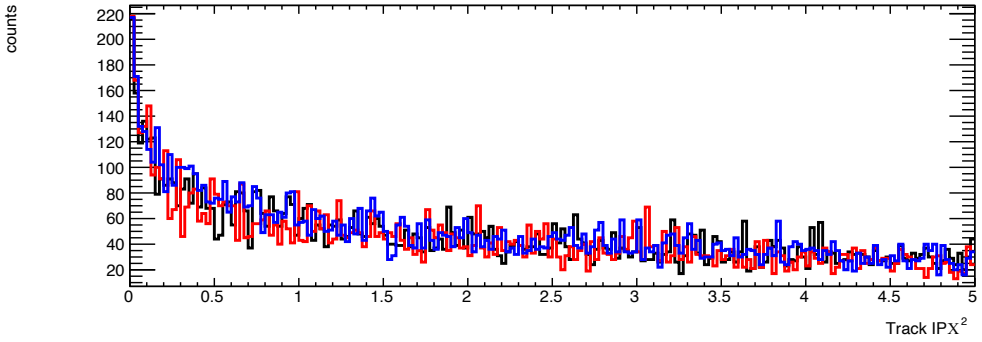


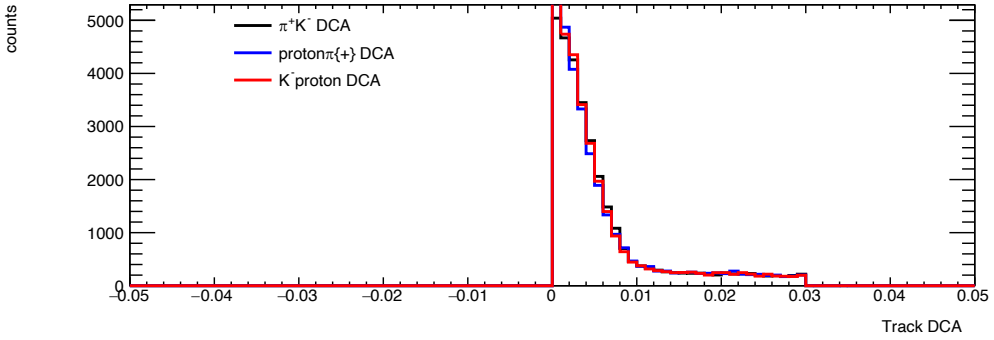


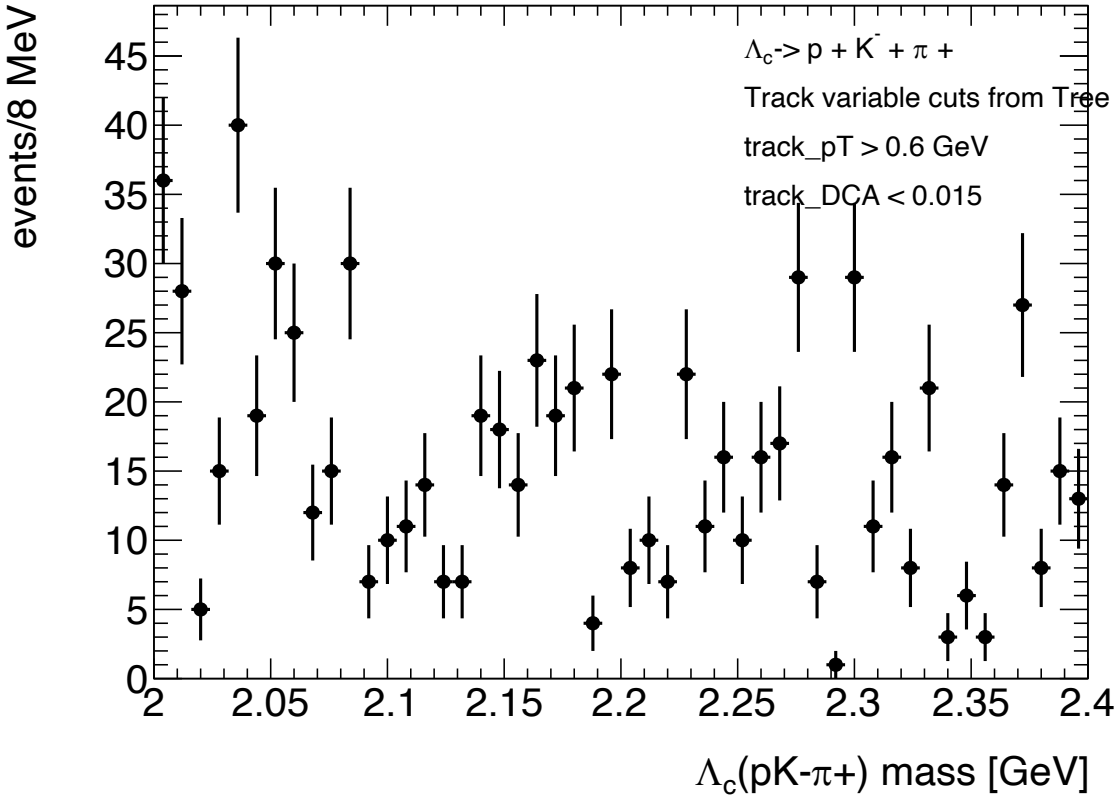
Backup

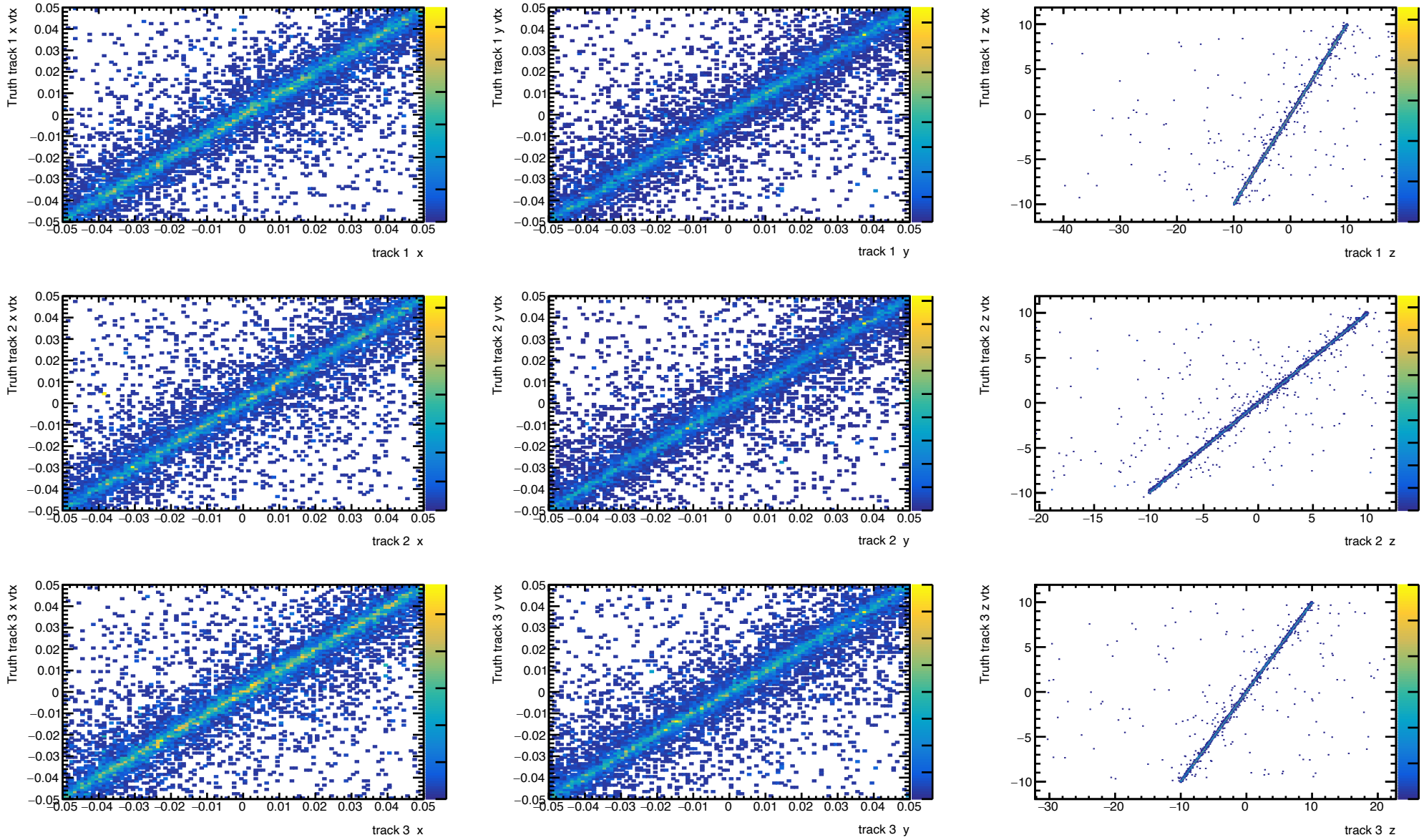
Lambda_c mass spectra based on offline track DCA cut on top of online cuts from slide 2









Somehow seems that offline track DCA cut cut reduces the statistics significantly

Reco vs truth matched to reco vertex correlations for daughters, CHARM samples