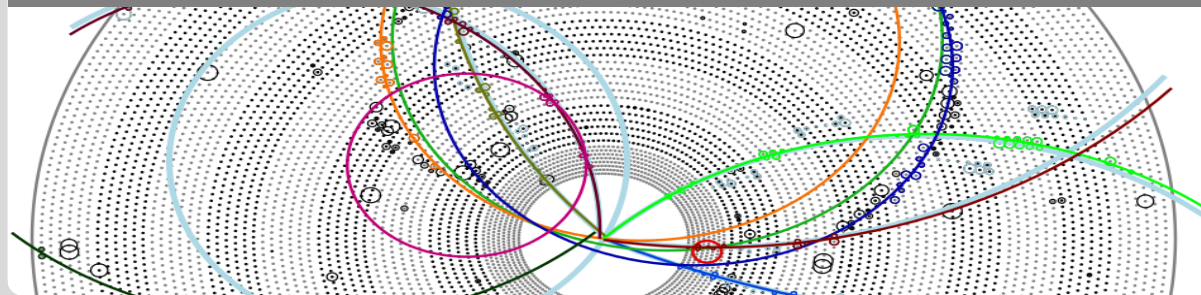


Track Quality Estimator – Kinematic Distributions

Tracking Meeting

Michael Eliachevitch(michael.eliahevitch@kit.edu) | 3 Mai 2019

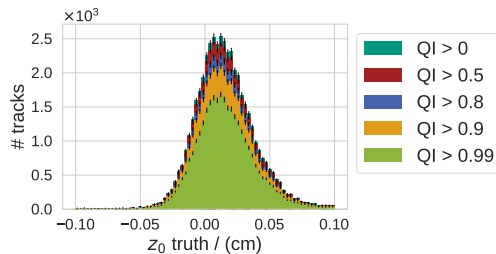
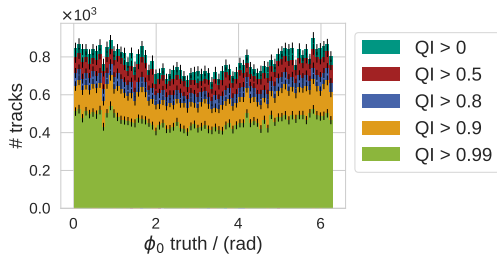
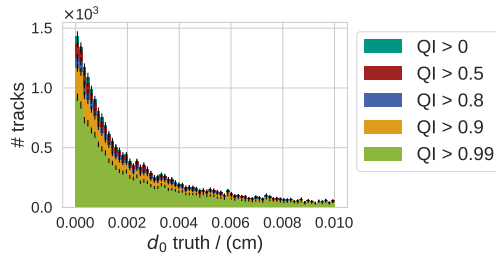
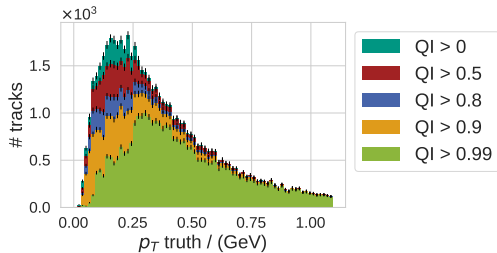
INSTITUT FÜR EXPERIMENTELLE TEILCHENPHYSIK (ETP) – KIT



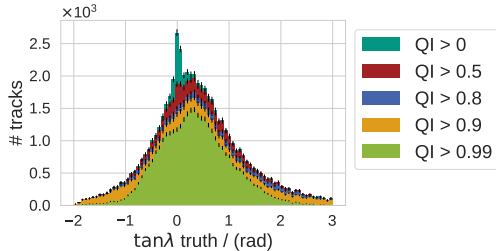
Goal of study

See in which kinematic region, i.e. for which track parameters, tracks get bad quality indicators assigned and get thus rejected when cutting on it.

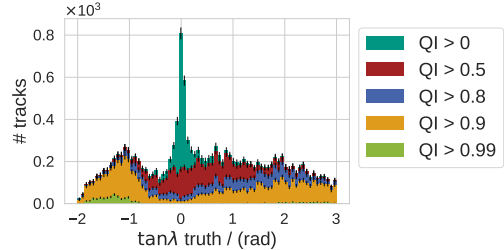
Most distributions as expected



$\tan \lambda$: Peak with bad quality indicator tracks at 0?



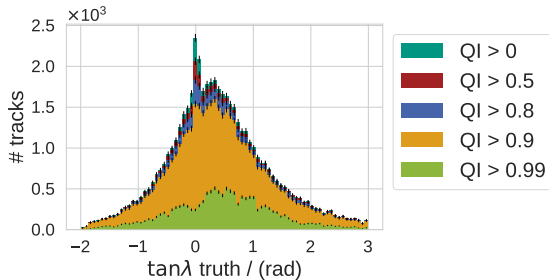
Now cut on tracks with `n_cdc_hits = 0`:



- since I only use tracks containing MC truth for $\tan \lambda$, there should be no fake tracks included

Don't see that in distributions for VXD Quality Indicator

Distribution from validation of VXDTF2 QE



Distribution from validation of CDC QE

