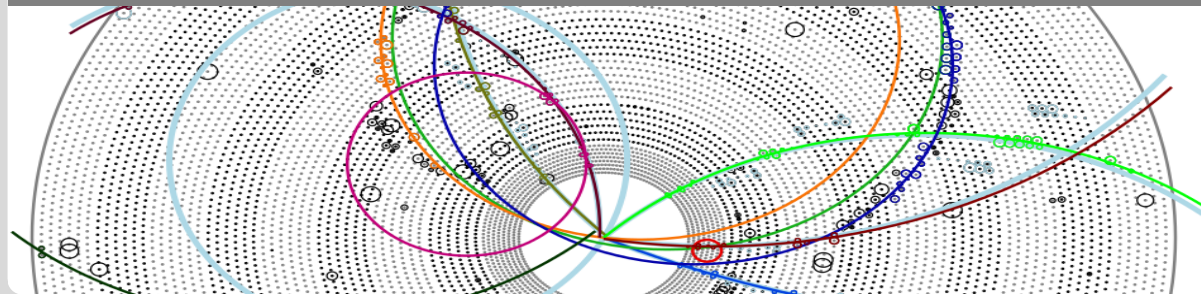


Track Quality Estimator – Kinematic Distributions

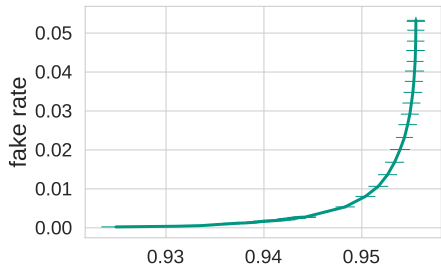
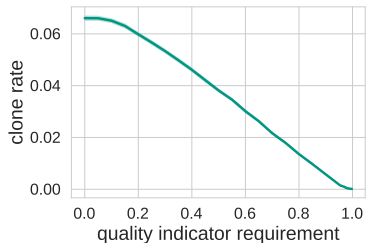
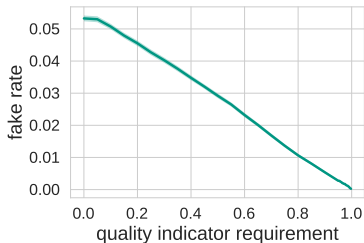
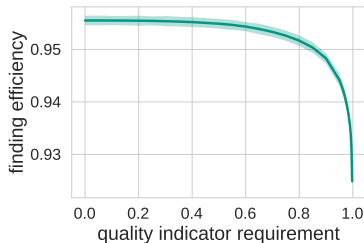
Tracking Meeting

Michael Eliachevitch(michael.eliachevitch@kit.edu) | 10 Mai 2019

INSTITUT FÜR EXPERIMENTELLE TEILCHENPHYSIK (ETP) – KIT



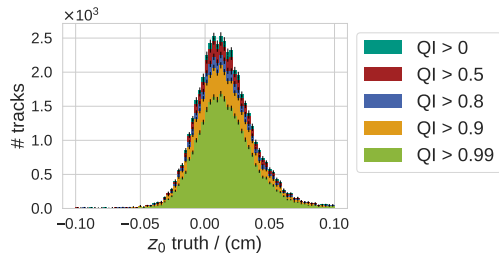
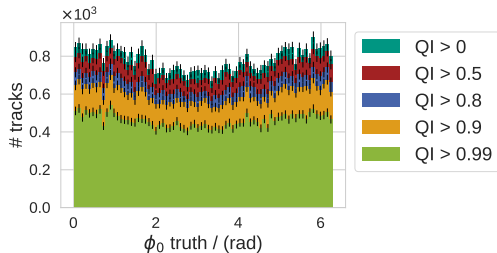
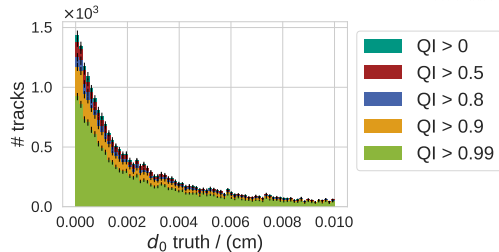
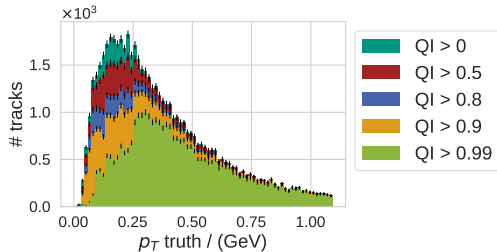
Reminder: MVA Track Quality Estimator performance



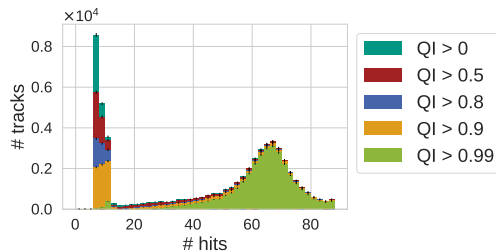
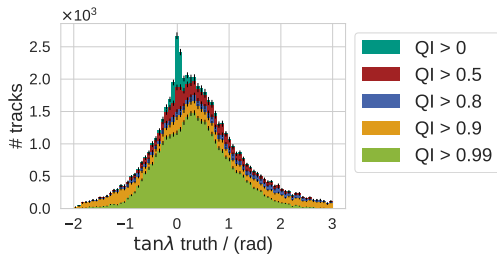
Goal of this study

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.

Track parameter distributions

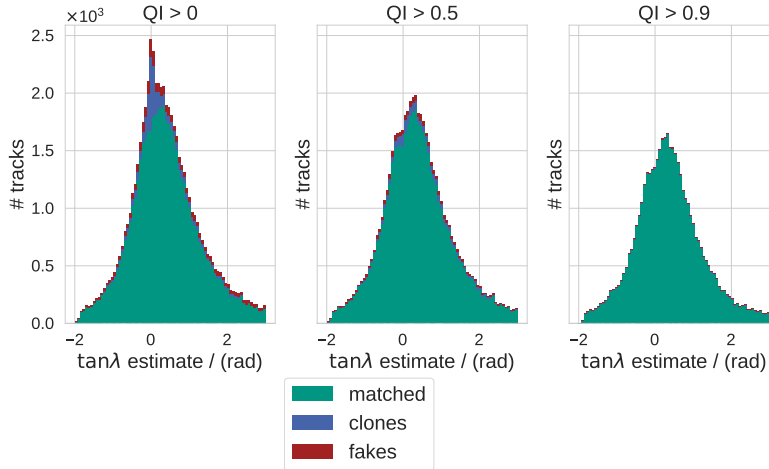


■ plotted are matched and clone tracks

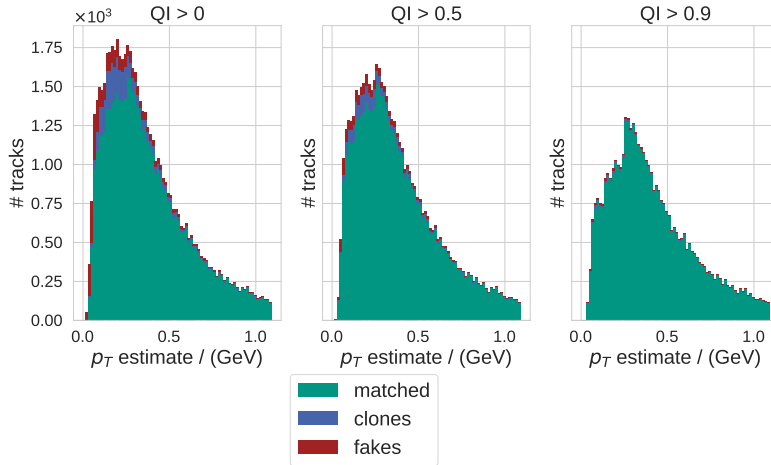


■ peak at $\tan \lambda = 0$ from clones

$\tan \lambda$ stacked distribution



p_T stacked distribution



nHits stacked distribution

