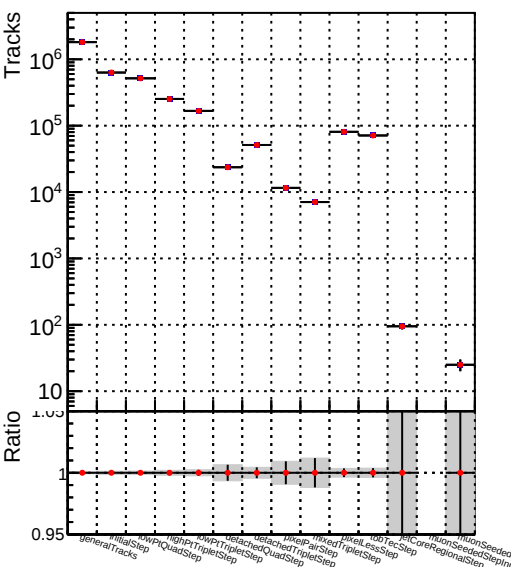
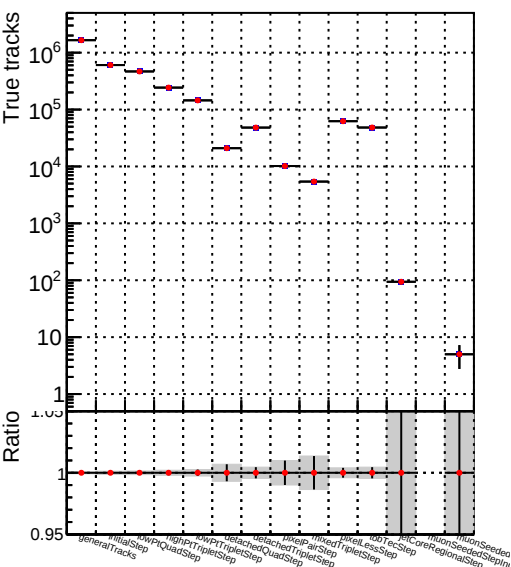


Number of tracks vs collection



Number of true tracks vs collection



Number —●— DQM_TT__CKF_MODIF

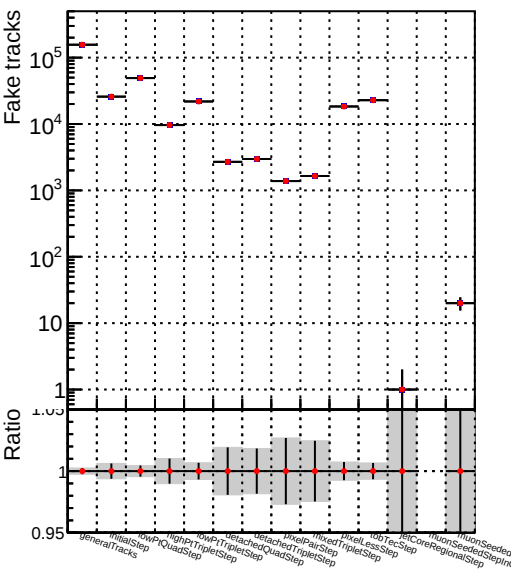


Figure 1 is a combined bar and scatter plot showing the ratio of duplicate tracks to total tracks for various methods. The y-axis is logarithmic, ranging from 0.95 to 10^4 . The x-axis lists 16 methods. The top part shows the ratio of duplicate tracks (black dots with error bars) on a log scale. The bottom part shows the ratio of total tracks (gray bars) on a linear scale from 0.95 to 1.0. The 'GeneralTracks' method has a ratio of 1.0. The 'RandomSeedlessStep' method has the highest ratio of duplicate tracks, exceeding 10^4 .

Method	Ratio of Duplicate Tracks (approx.)	Ratio of Total Tracks (approx.)
GeneralTracks	1.0	1.0
RandomSeedlessStep	2×10^4	0.95
RandomSeedStep	30	0.95
RandomStep	200	0.95
TripleQuasiStep	30	0.95
TripleStep	80	0.95
TripleStep	250	0.95
TripleStep	50	0.95
TripleStep	4	0.95
TripleStep	2	0.95
TripleStep	70	0.95
TripleStep	150	0.95
TripleStep	150	0.95
TripleStep	150	0.95
TripleStep	150	0.95
TripleStep	150	0.95

Number of pileup tracks vs collection

