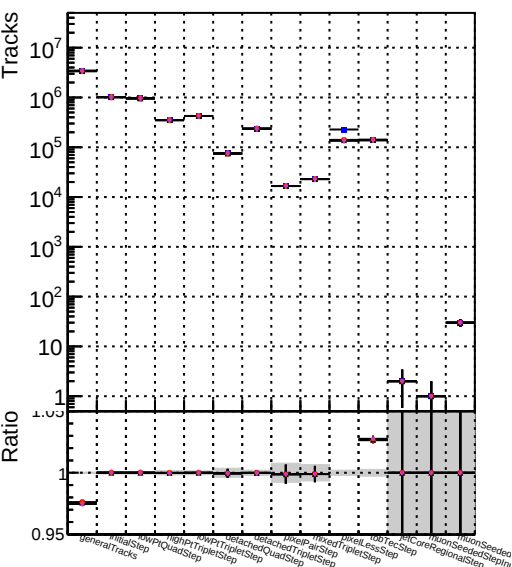
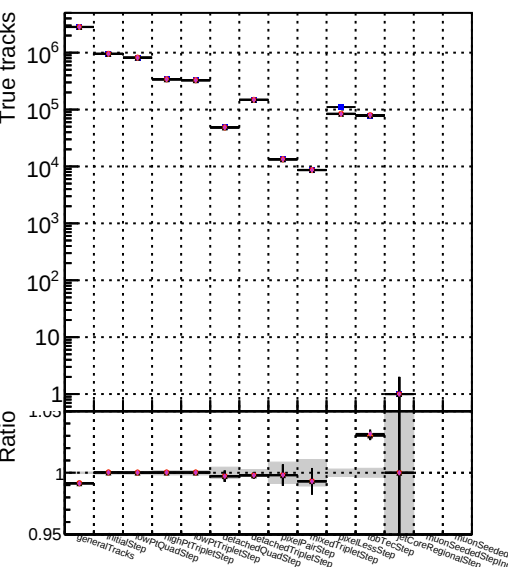


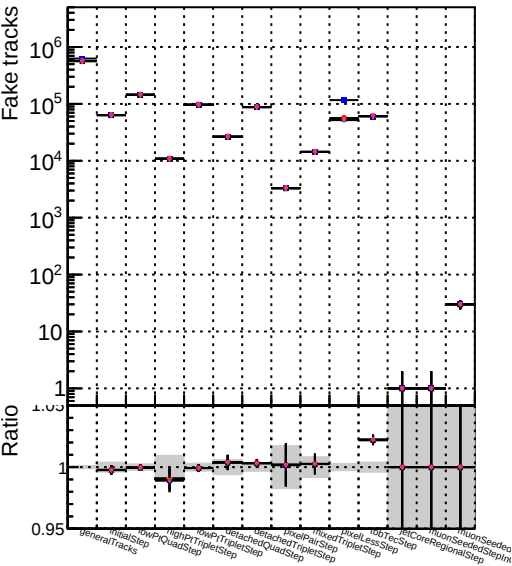
### Number of tracks vs collection



### Number of true tracks vs collection



| Number | Symbol                                                                            | Model | Configuration | Method    | Specification | Performance      |
|--------|-----------------------------------------------------------------------------------|-------|---------------|-----------|---------------|------------------|
| 1      |  | DOM   | mkFit         | XiMinusPU | NEWdefault    | specPLess2-2-low |
| 2      |  | DOM   | mkFit         | XiMinusPU | NEWdefault    | specPLess3-2-low |
| 3      |  | DOM   | mkFit         | XiMinusPU | NEWdefault    | specPLess4-2-low |



The figure consists of two vertically stacked plots sharing a common x-axis representing different methods. The top plot shows the number of duplicate tracks on a logarithmic y-axis ranging from  $10^2$  to  $10^5$ . Each method has a horizontal box plot indicating the distribution of duplicate tracks, with individual data points plotted as small circles. The bottom plot shows the ratio on a linear y-axis ranging from 0.8 to 1.0. Each method has a horizontal box plot indicating the distribution of ratios, with individual data points plotted as small circles.

| Method               | Duplicate Tracks (approx. median) | Ratio (approx. median) |
|----------------------|-----------------------------------|------------------------|
| GeneralTracks        | $10^5$                            | 0.9                    |
| InitialStep          | $10^2$                            | 0.88                   |
| NonPPTriplesStep     | $7 \times 10^2$                   | 1.0                    |
| HighPPTriplesStep    | $3 \times 10^1$                   | 0.93                   |
| NonPPTriplesStep     | $2.5 \times 10^2$                 | 1.0                    |
| DetachedTriplesStep  | $7 \times 10^2$                   | 0.98                   |
| DetachedQuadsStep    | $2 \times 10^3$                   | 1.0                    |
| PriorParStep         | $10^2$                            | 0.95                   |
| MixedParStep         | $4 \times 10^2$                   | 0.95                   |
| PriorLessStep        | $4 \times 10^2$                   | 0.95                   |
| ObjRecStep           | $4 \times 10^2$                   | 0.95                   |
| SelfCoreRegionalStep | $4 \times 10^2$                   | 0.95                   |
| MultiSeededStep      | -                                 | 0.95                   |
| HumanSeedsStep       | -                                 | 0.95                   |
| RandomSeedStep       | -                                 | 0.95                   |
| Pin                  | -                                 | 0.95                   |

## Number of pileup tracks vs collection

