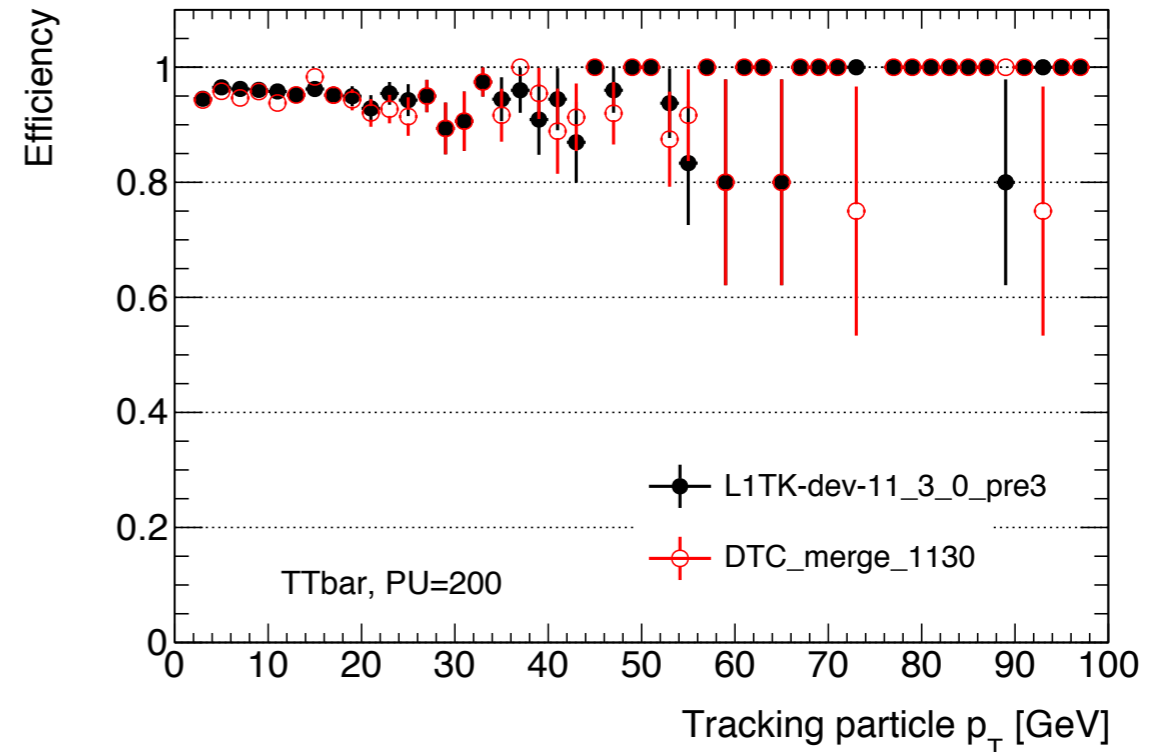
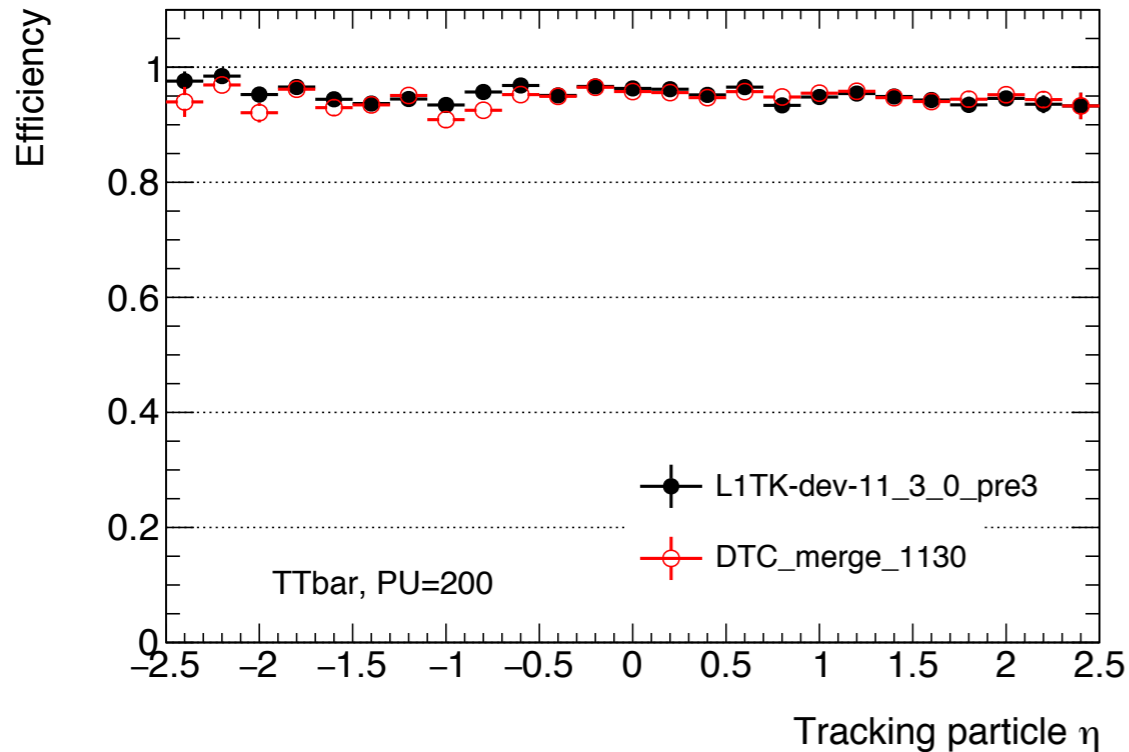


# efficiency: slightly reduced



“old”

```
efficiency for  $|\eta| < 1.0 = 95.6354 \pm 0.253723$   
efficiency for  $1.0 < |\eta| < 1.75 = 94.4622 \pm 0.389451$   
efficiency for  $1.75 < |\eta| < 2.4 = 95.3709 \pm 0.511865$   
combined efficiency for  $|\eta| < 2.4 = 95.2488 \pm 0.197364 = 11066/11618$ 
```

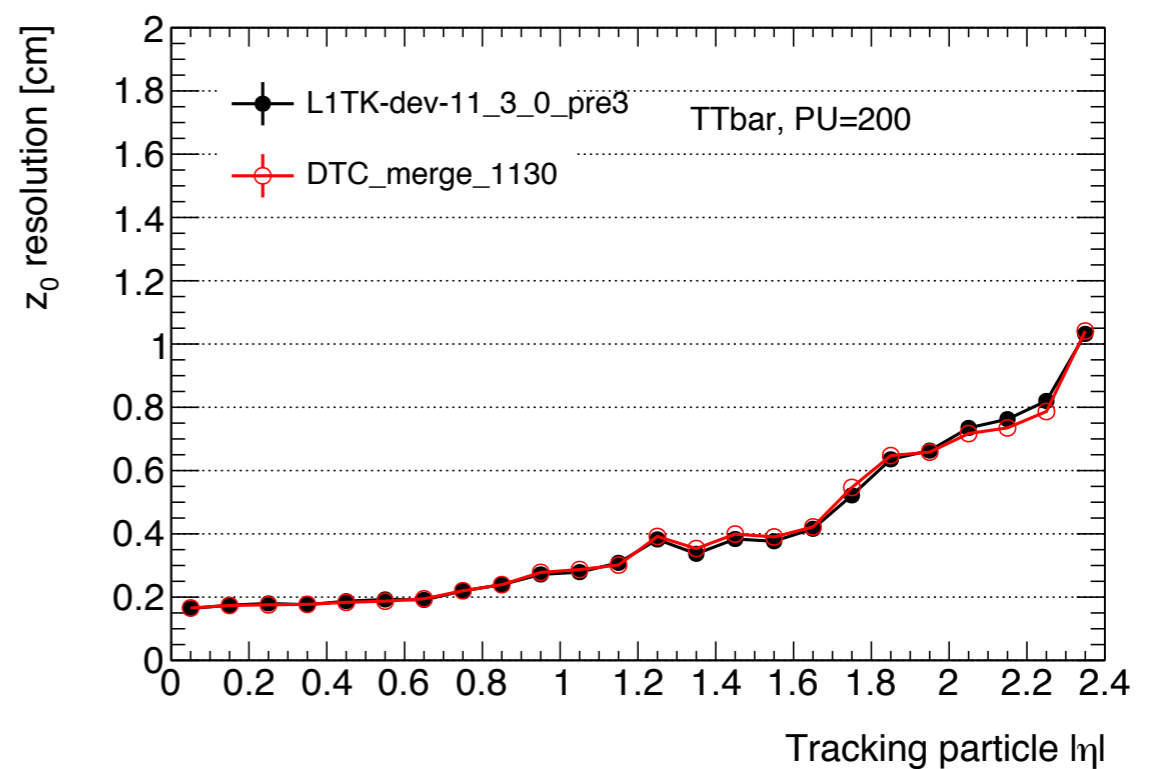
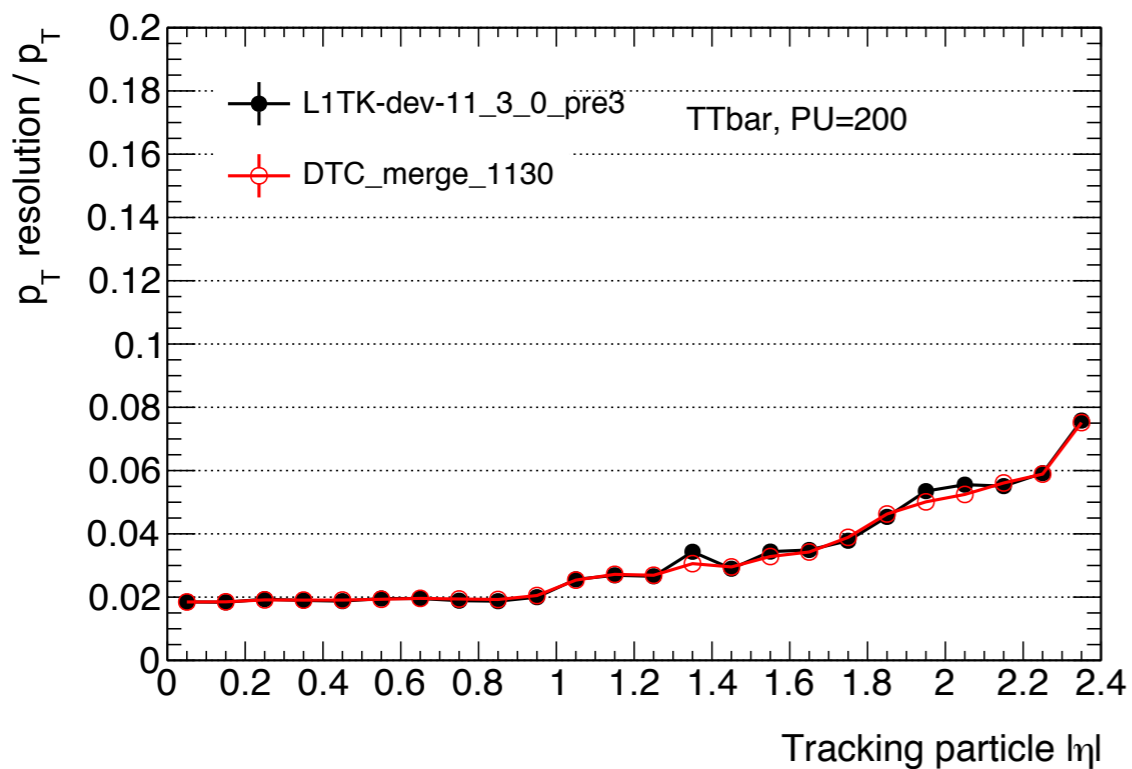
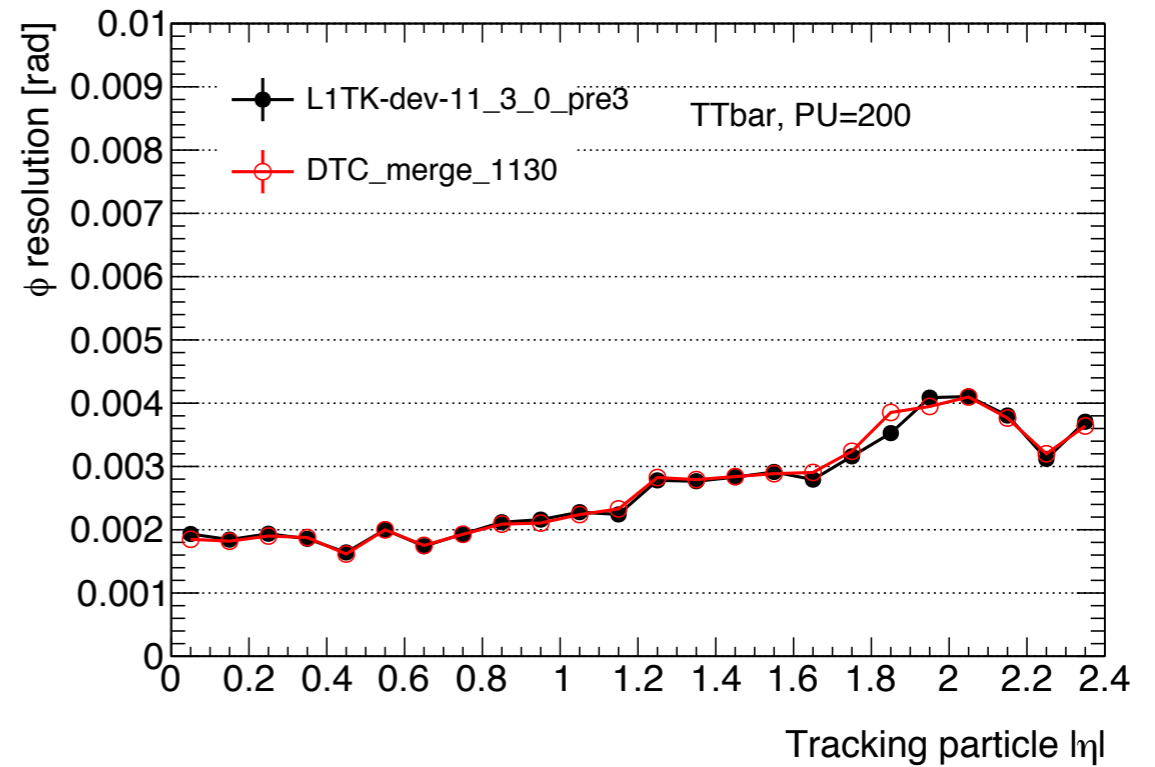
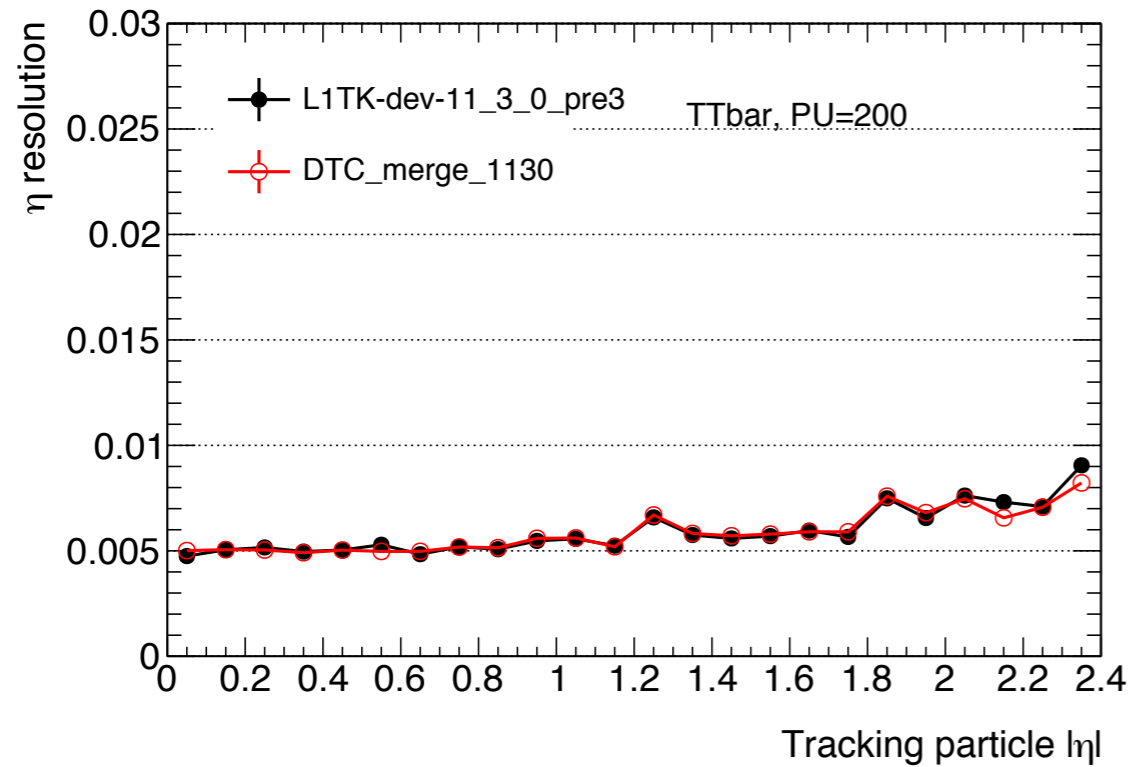
```
efficiency for  $p_T > 2 = 95.2488 \pm 0.197364$   
efficiency for  $2 < p_T < 8.0 = 95.2348 \pm 0.228548$   
efficiency for  $p_T > 8.0 = 95.2901 \pm 0.391378$   
efficiency for  $p_T > 40.0 = 95.0226 \pm 1.46291$ 
```

“new”

```
efficiency for  $|\eta| < 1.0 = 94.9414 \pm 0.272158$   
efficiency for  $1.0 < |\eta| < 1.75 = 94.2882 \pm 0.395156$   
efficiency for  $1.75 < |\eta| < 2.4 = 94.8961 \pm 0.536134$   
combined efficiency for  $|\eta| < 2.4 = 94.7409 \pm 0.207089 = 11007/11618$ 
```

```
efficiency for  $p_T > 2 = 94.7409 \pm 0.207089$   
efficiency for  $2 < p_T < 8.0 = 94.7284 \pm 0.239747$   
efficiency for  $p_T > 8.0 = 94.7782 \pm 0.410991$   
efficiency for  $p_T > 40.0 = 94.1176 \pm 1.58276$ 
```

# 90% resolutions: unchanged



# fake rate (left) & duplicate fraction (right): unchanged

