SVD+CDC MC Tracking
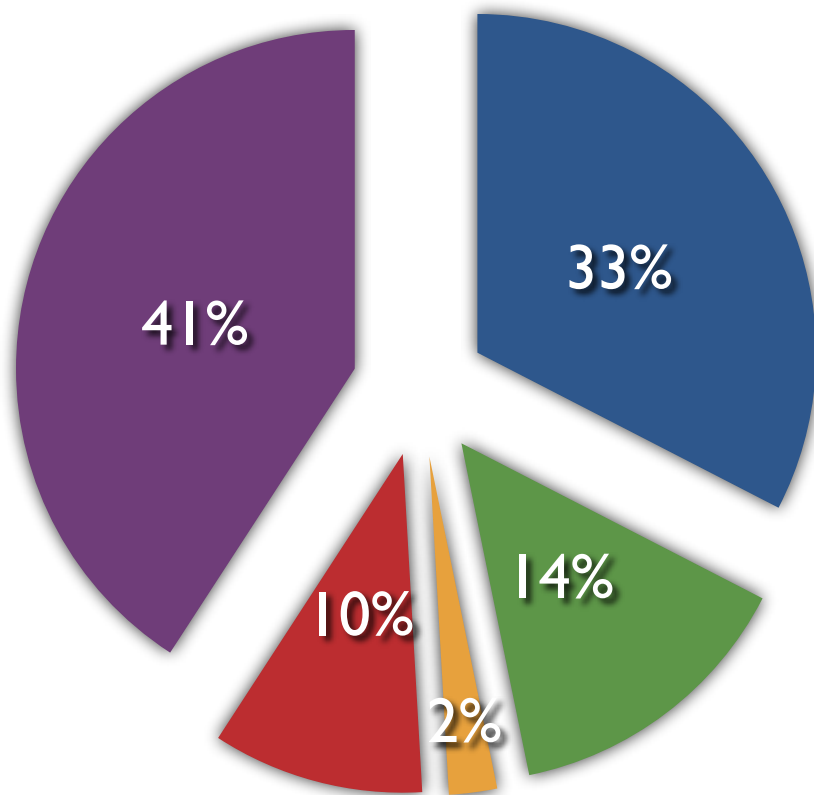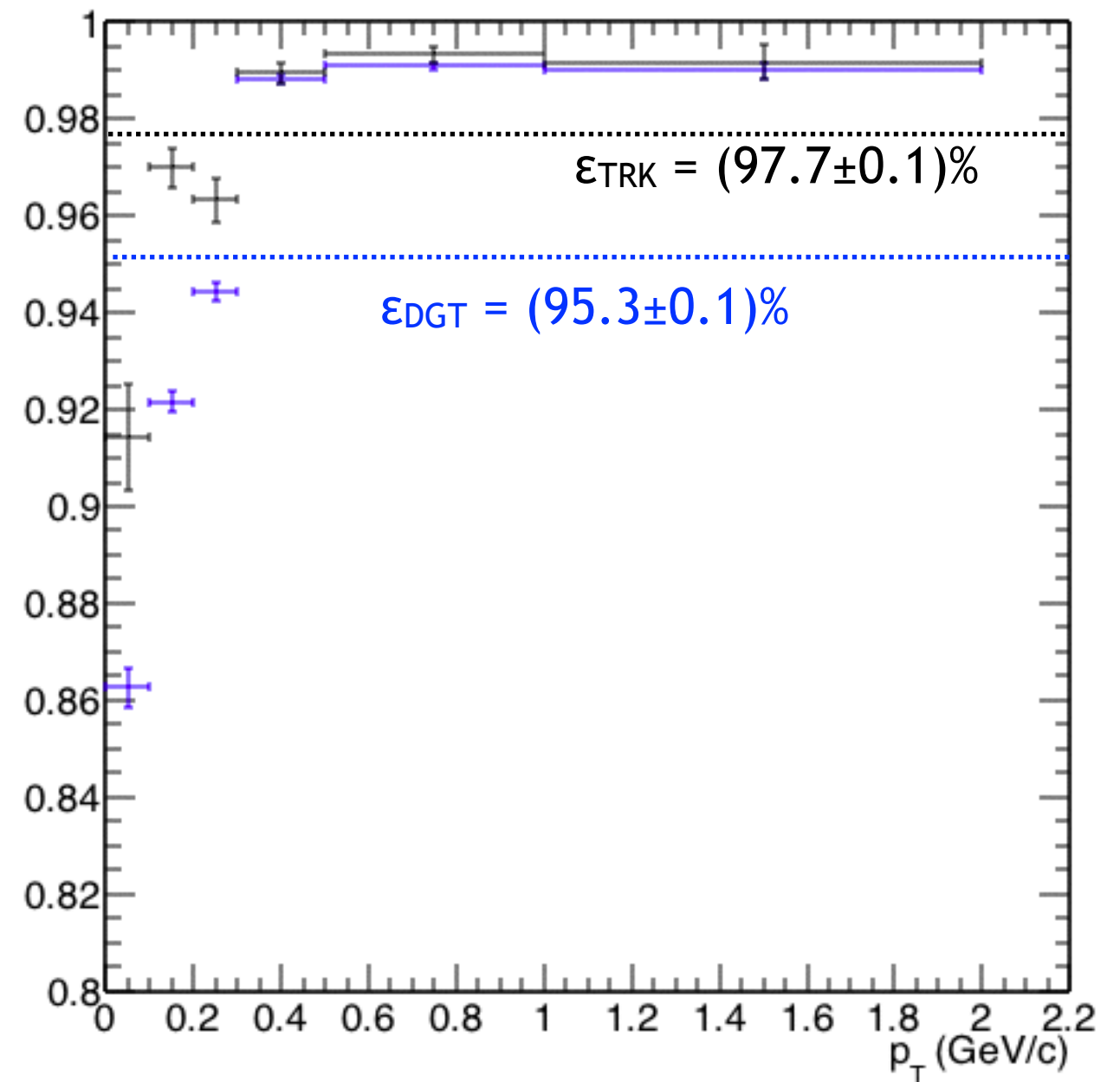
➡ In 1k events, 9628 tracks have at least one related PXD Digit, 9410 tracks have at least one PXD Digit contained in an ROI.

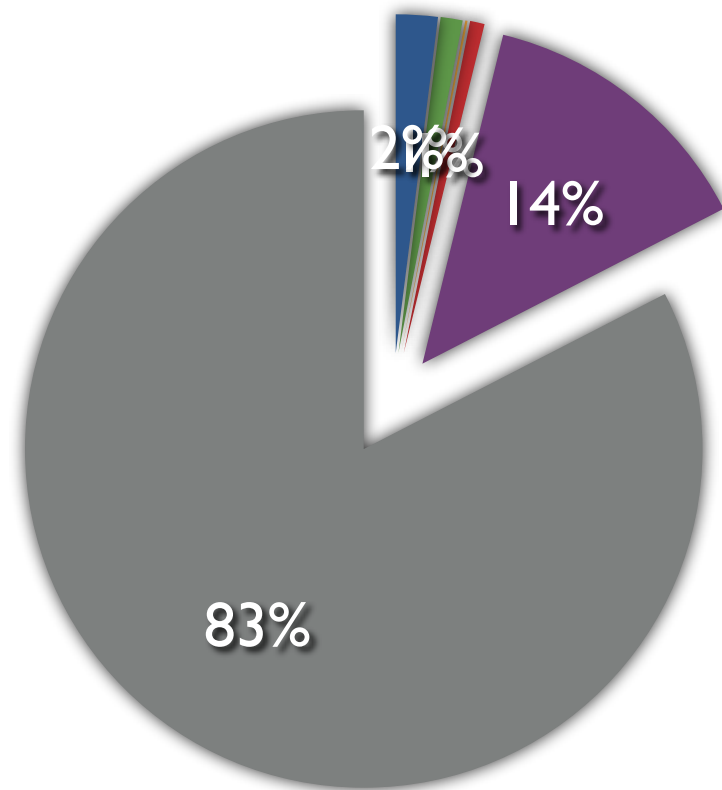➡ What about the other 218 tracks?

- ● ROI with correct VxdID (71)
- ● ROI with wrong VxdID (31)
- ● no ROI, Intercept with correct VxdID (5)
- ● no ROI, Intercept with wrong VxdID (22)
- ● no Intercept (89) ← *it was 1454 with the real TF*

$\varepsilon_{TRK} = (97.7 \pm 0.1)\%$

$\varepsilon_{DGT} = (95.3 \pm 0.1)\%$

Using MCTF the ε_{TRK} reaches 98%, w.r.t 83% obtained with the real TF
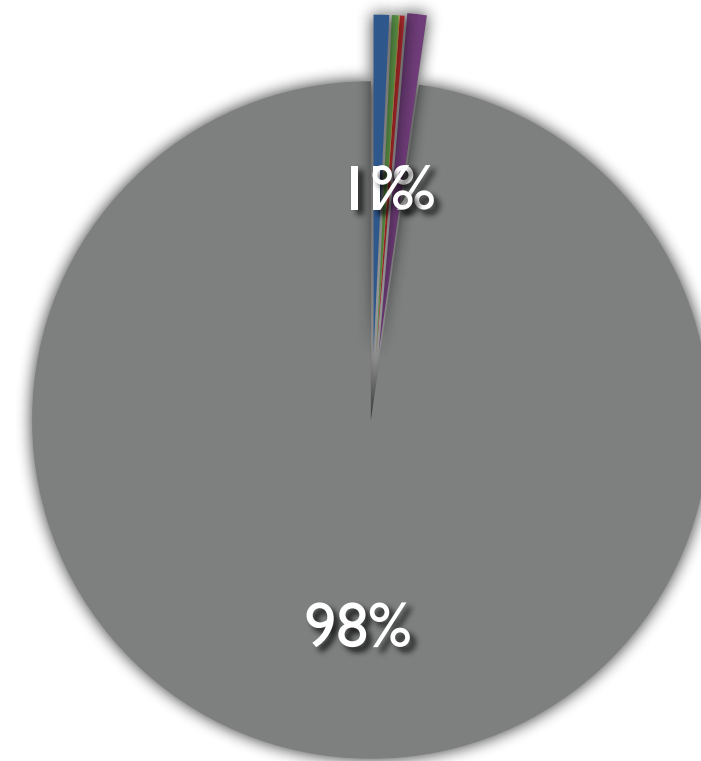
The TrackFinder Effect

real TrackFinder

2% 1% 1% 14% 83%

- ROI with correct VxdID (213)
- ROI with wrong VxdID (112)
- no ROI, Intercept with correct VxdID (11)
- no ROI, Intercept with wrong VxdID (74)
- no Intercept (1454)
- ok: Digit inside ROI (8826)

MCTrackFinder

1% 1% 98%

- ROI with correct VxdID (71)
- ROI with wrong VxdID (31)
- no ROI, Intercept with correct VxdID (5)
- no ROI, Intercept with wrong VxdID (22)
- no Intercept (89)
- ok: Digit inside ROI (9420)