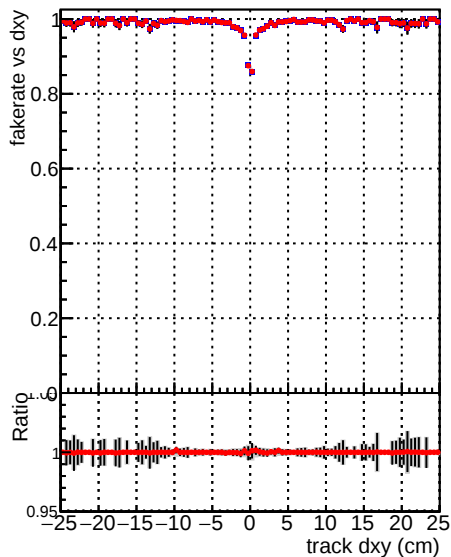
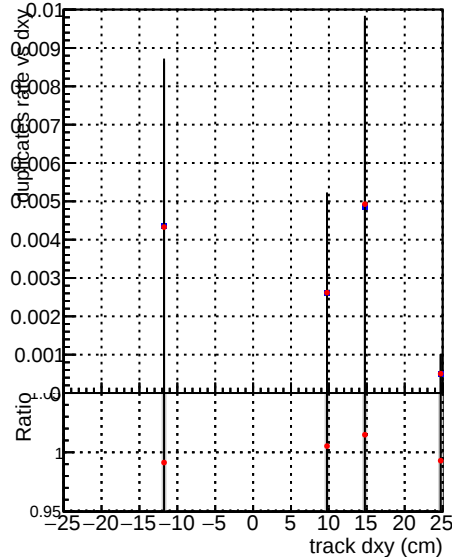


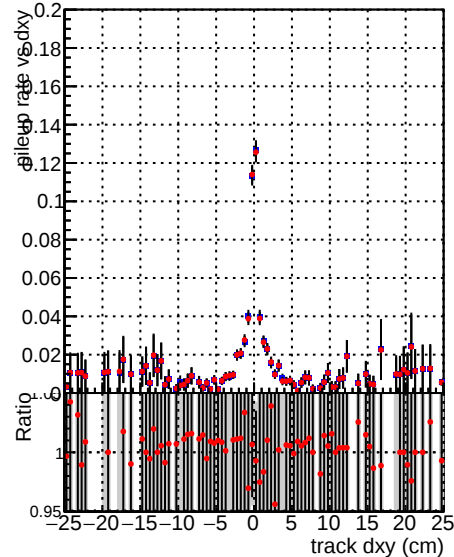
### Fake rate vs dxy



### Duplicates Rate vs Dxy



### Pileup rate vs dxy



|                |  |                                              |
|----------------|--|----------------------------------------------|
| Fake rate vs d |  | DQM_V0001_R0000000001_Global_mkFitbase1_RECO |
|                |  | DQM_V0001_R0000000001_Global_mkFitbase2_RECO |

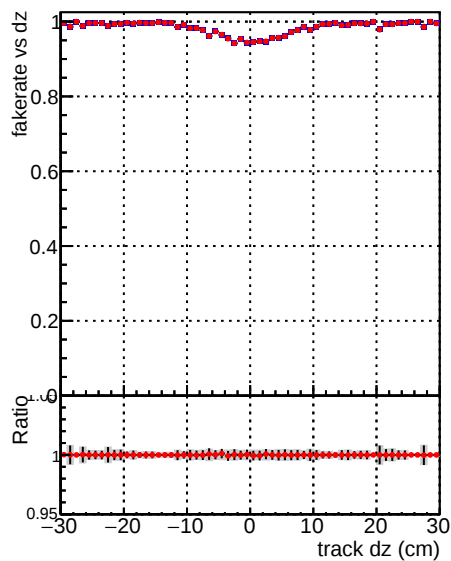


Figure 10 is a plot showing the ratio of the number of multiplicities as a function of track  $dz$  (cm). The x-axis ranges from -30 to 30 cm, and the y-axis ranges from 0.95 to 0.01. The data points are represented by red dots with vertical error bars. The ratio is generally close to 1.0, with some fluctuations and a notable peak around 25 cm.

| track $dz$ (cm) | Ratio   |
|-----------------|---------|
| -5              | ~0.0005 |
| -5              | ~0.0012 |
| 10              | ~0.0012 |
| 25              | ~0.0038 |
| 25              | ~0.0004 |
| 28              | ~0.0004 |