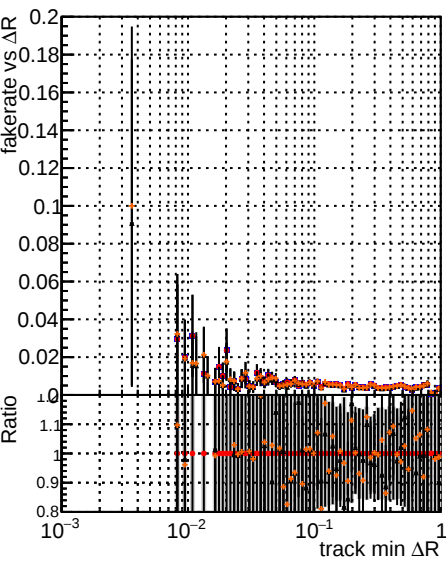
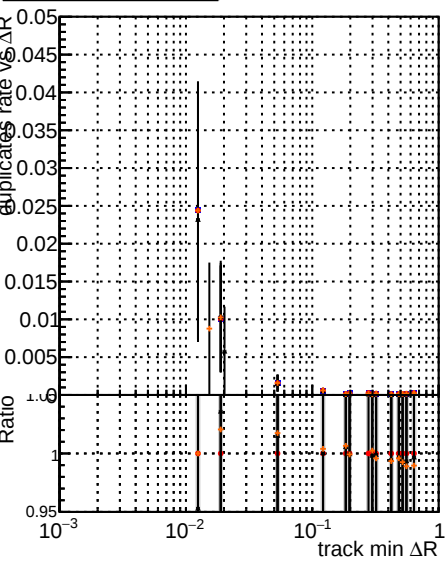


Fake rate vs dr



Duplicates Rate vs dr



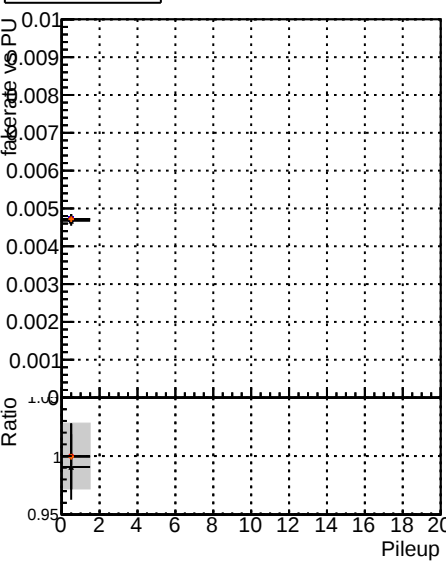
Pileup rate vs dr



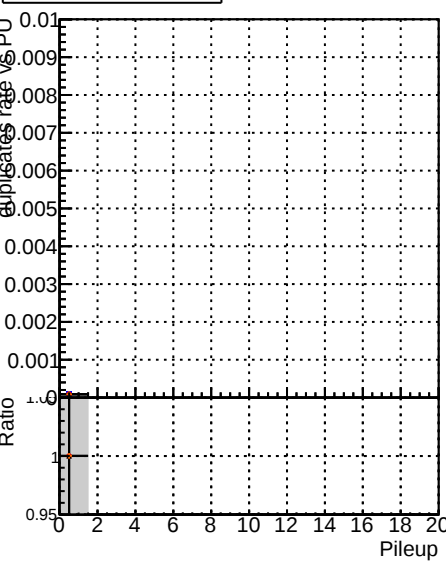
Fake rate vs $\Delta R(\text{track}, \text{jet})$
Legend:
- original (black line)
- newbranch (red line)
- newbranch_pless (orange line)



Fake rate vs pu



Duplicates Rate vs pu



Pileup rate vs pu

