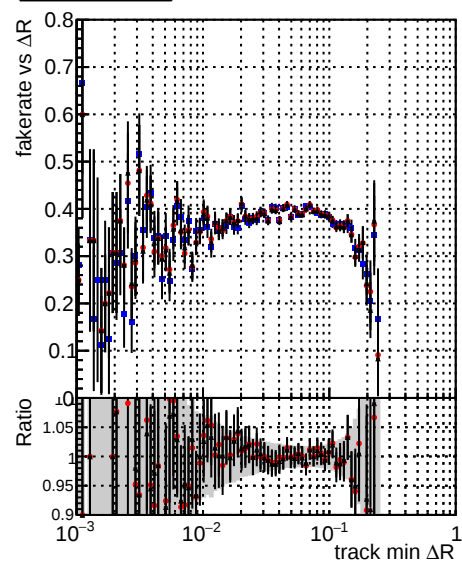
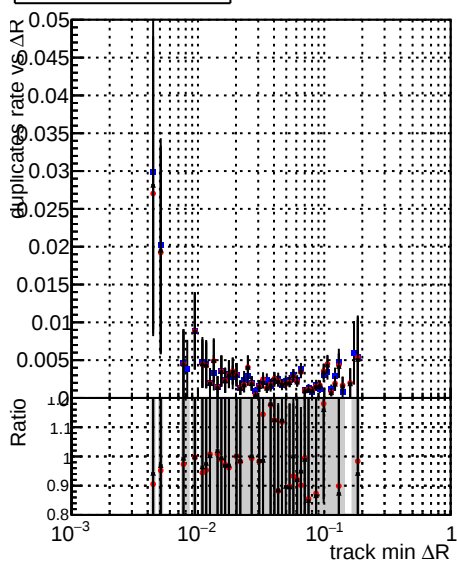


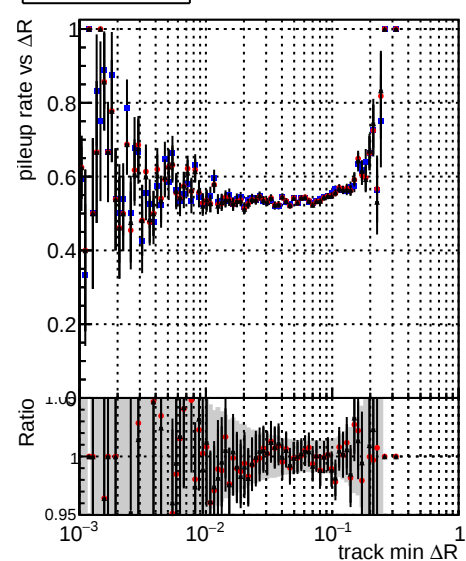
Fake rate vs dr



Duplicates Rate vs dr

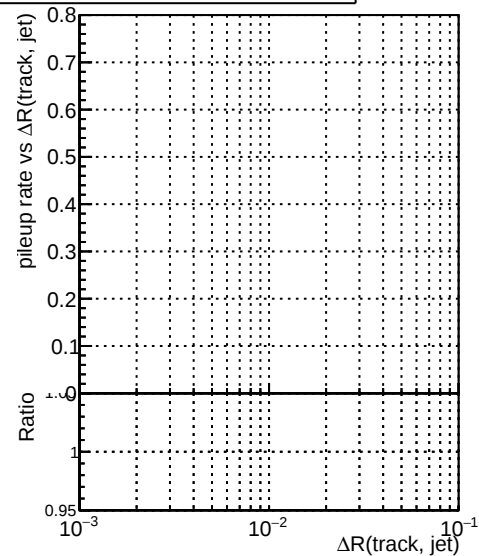
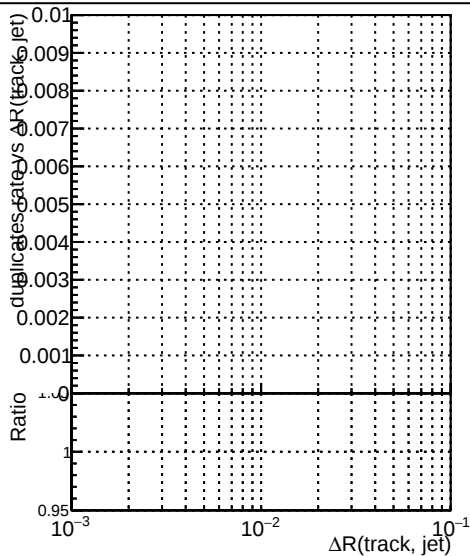
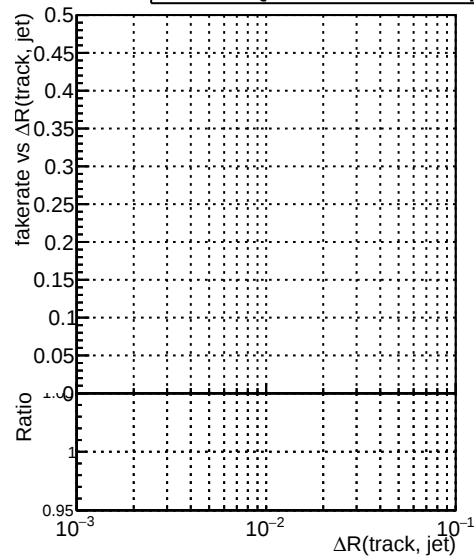


Pileup rate vs dr

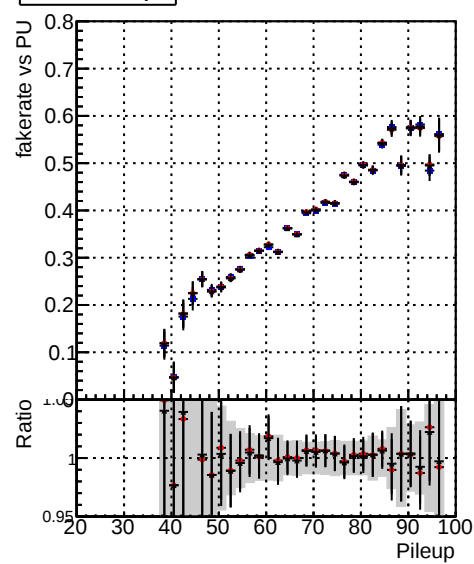


Legend for Fake rate vs ΔR , Duplicates Rate vs ΔR , and Pileup rate vs ΔR :

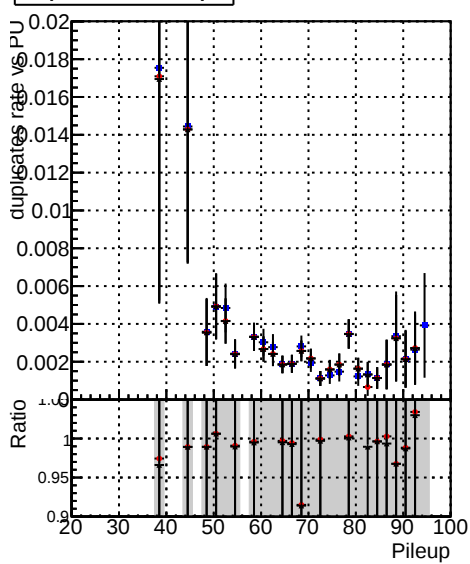
- $\blacksquare$ DQM TT original
- $\bullet$ DQM TT newbranch_pLess
- $\blacktriangledown$ DQM TT newbranch_pLessMVACand



Fake rate vs pu



Duplicates Rate vs pu



Pileup rate vs pu

