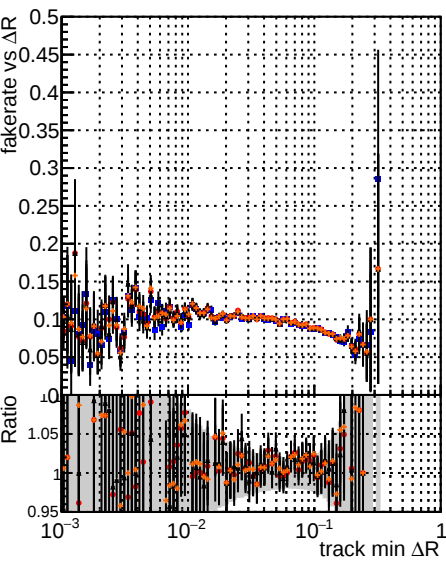
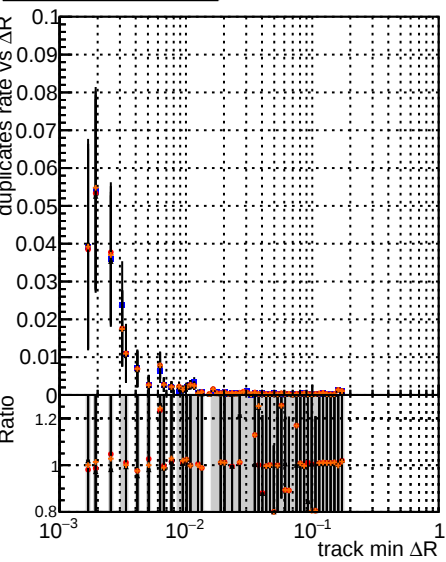


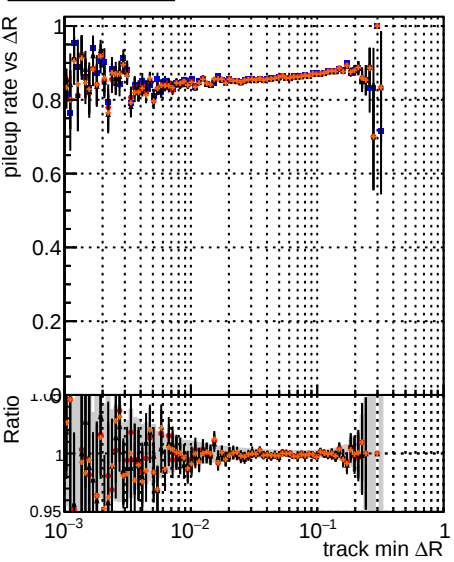
Fake rate vs dr



Duplicates Rate vs dr



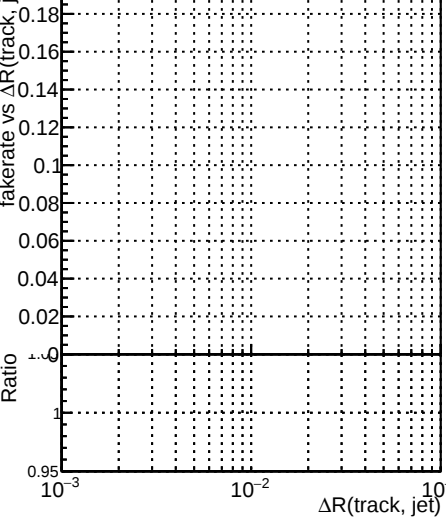
Pileup rate vs dr



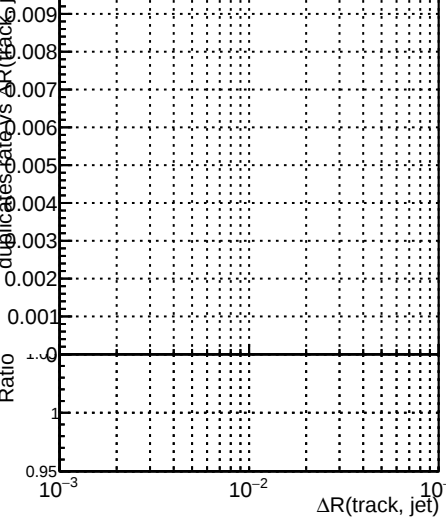
Legend for Fake rate vs  $\Delta R$ , Duplicates Rate vs  $\Delta R$ , and Pileup rate vs  $\Delta R$ :

| Model            | Line Style | Color  | Symbol | Model            | Line Style | Color  | Symbol |
|------------------|------------|--------|--------|------------------|------------|--------|--------|
| original         | Solid      | Black  | None   | original         | Solid      | Black  | None   |
| mod modelTEST-25 | Dashed     | Blue   | Circle | mod modelTEST-25 | Dashed     | Blue   | Circle |
| mod modelTEST-29 | Dashed     | Red    | Circle | mod modelTEST-29 | Dashed     | Red    | Circle |
| mod modelTEST-24 | Dashed     | Orange | Circle | mod modelTEST-24 | Dashed     | Orange | Circle |

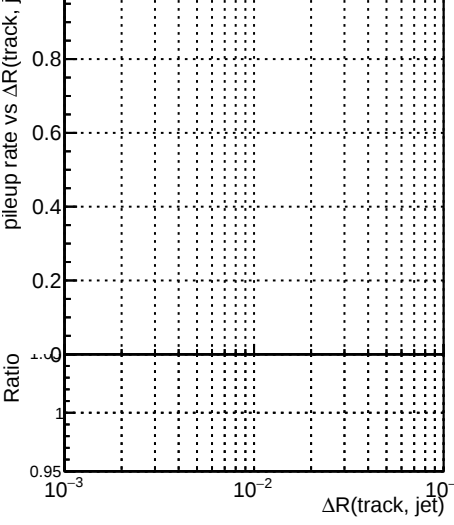
Fake rate vs



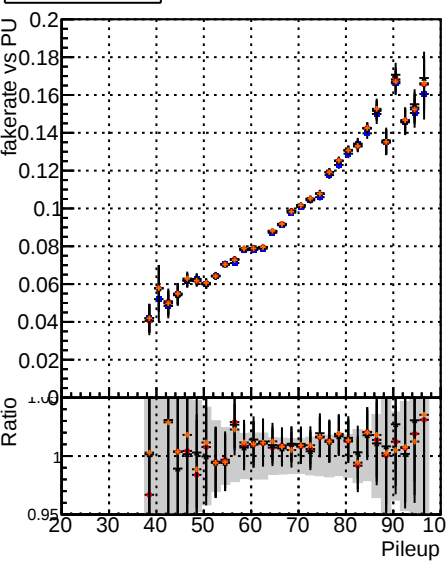
Duplicates rate vs



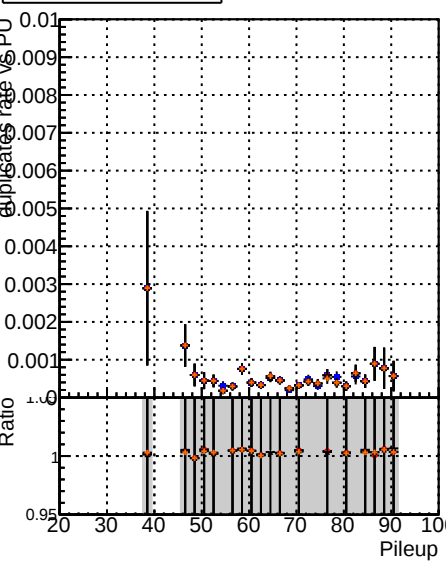
Pileup rate vs



Fake rate vs pu



Duplicates Rate vs pu



Pileup rate vs pu

