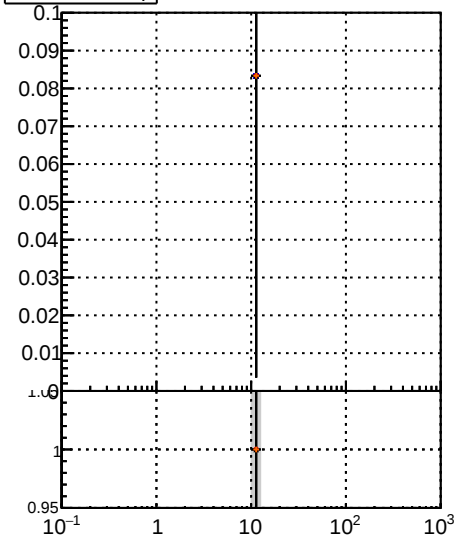


Fake rate vs p_T



Duplicates Rate vs p_T

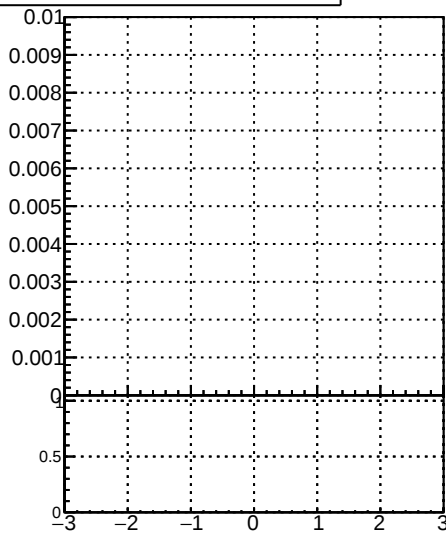
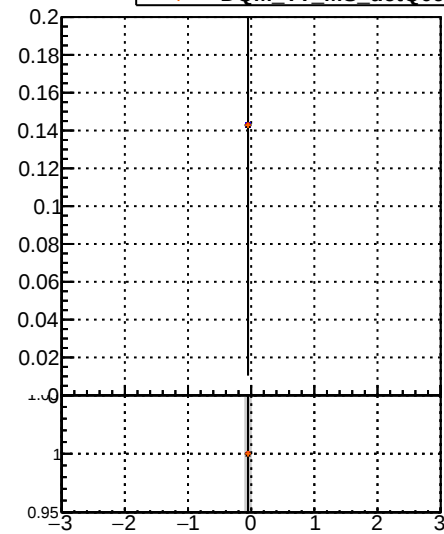


Pileup rate vs p_T

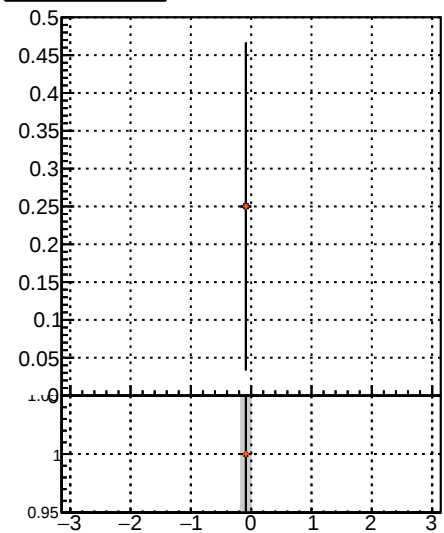


Legend for Fake rate vs p_T , Duplicates Rate vs p_T , and Pileup rate vs p_T :

- Blue line: $p_T < 15$
- Red line: $p_T > 15$
- Black line: $p_T < 15$
- Orange line: $p_T > 15$



Fake rate vs ϕ



Duplicates Rate vs ϕ



Pileup rate vs ϕ

