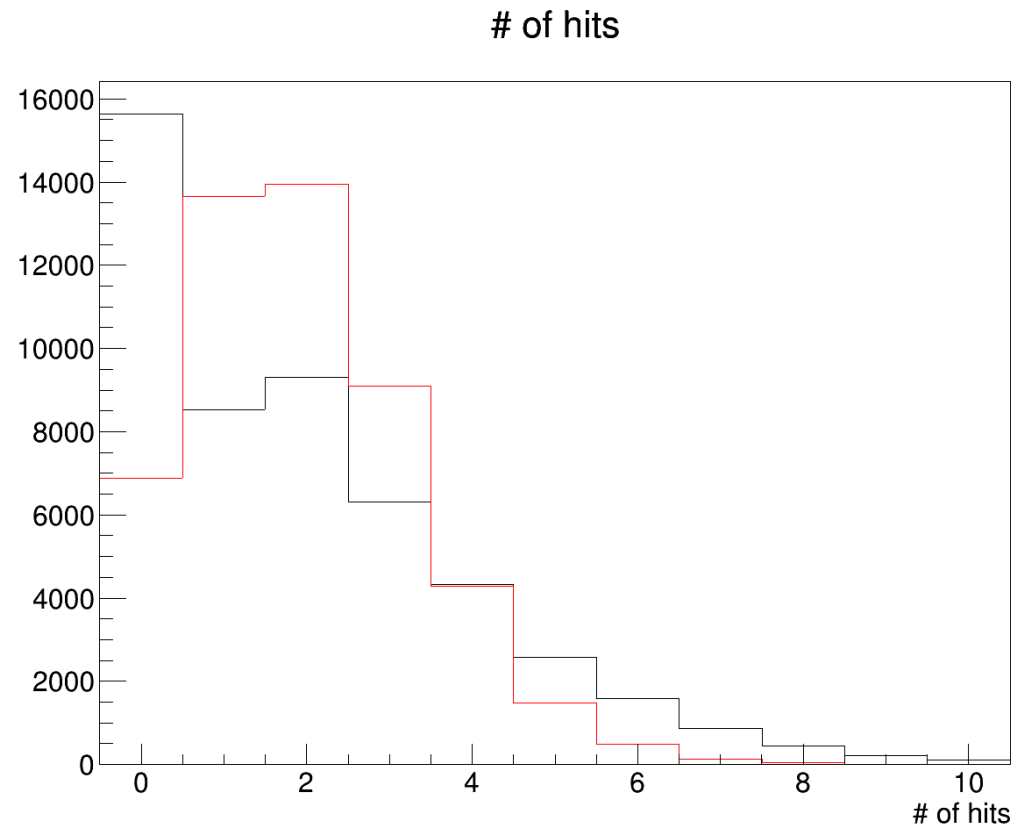
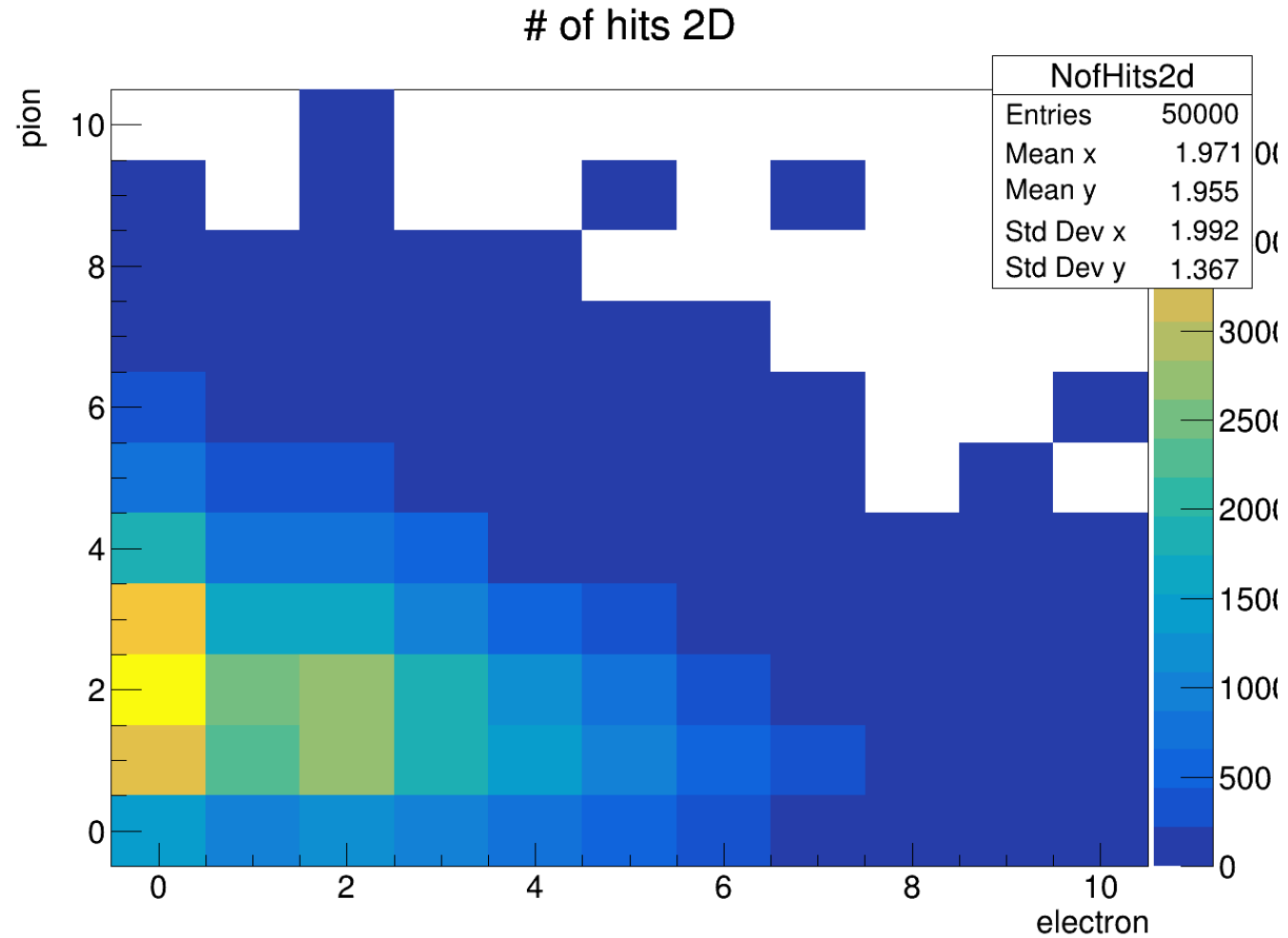


# Pion-electron comparison

- Black -> electron , red-> pion
- 3MeV threshold
- Considering hitting particles
- # of hits per annihilation
- # of average hits :
- e : 1.99
- Pion: 1.95

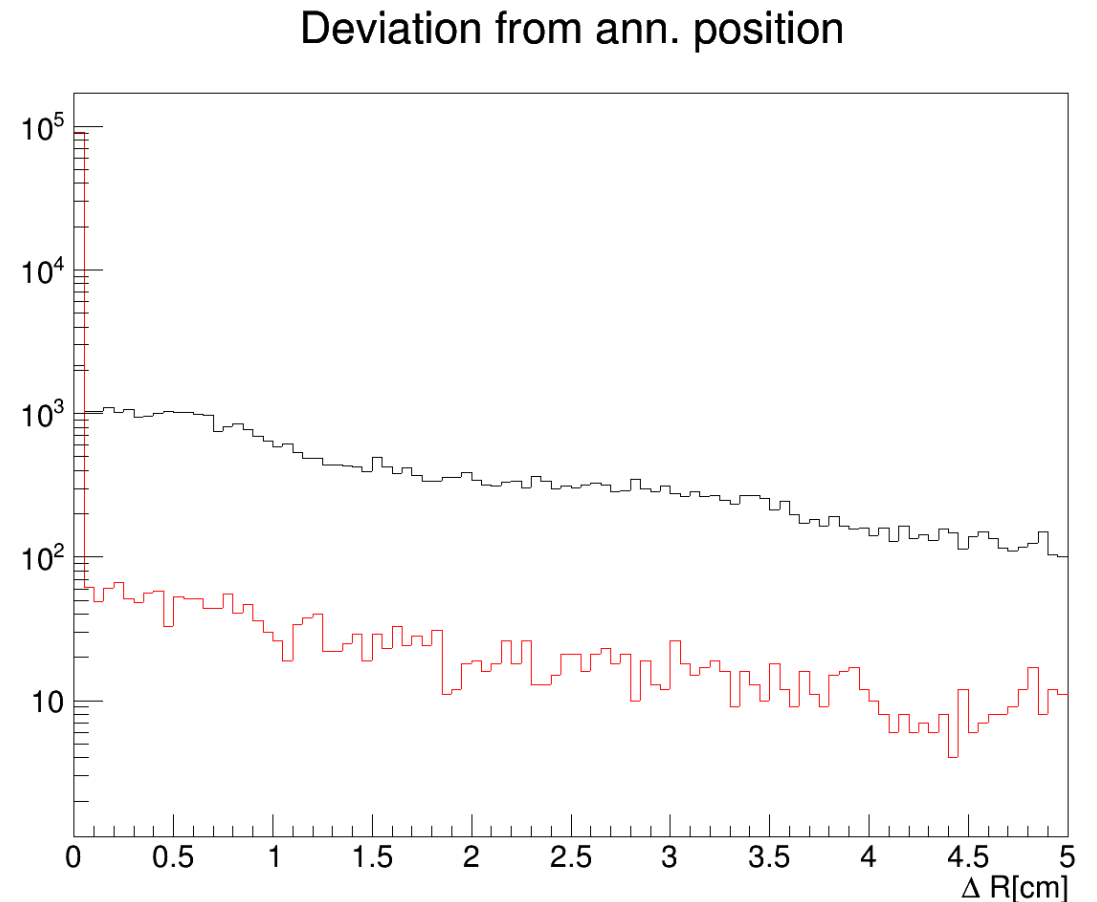


# # of hits 2D



# Deviation from annihilation position

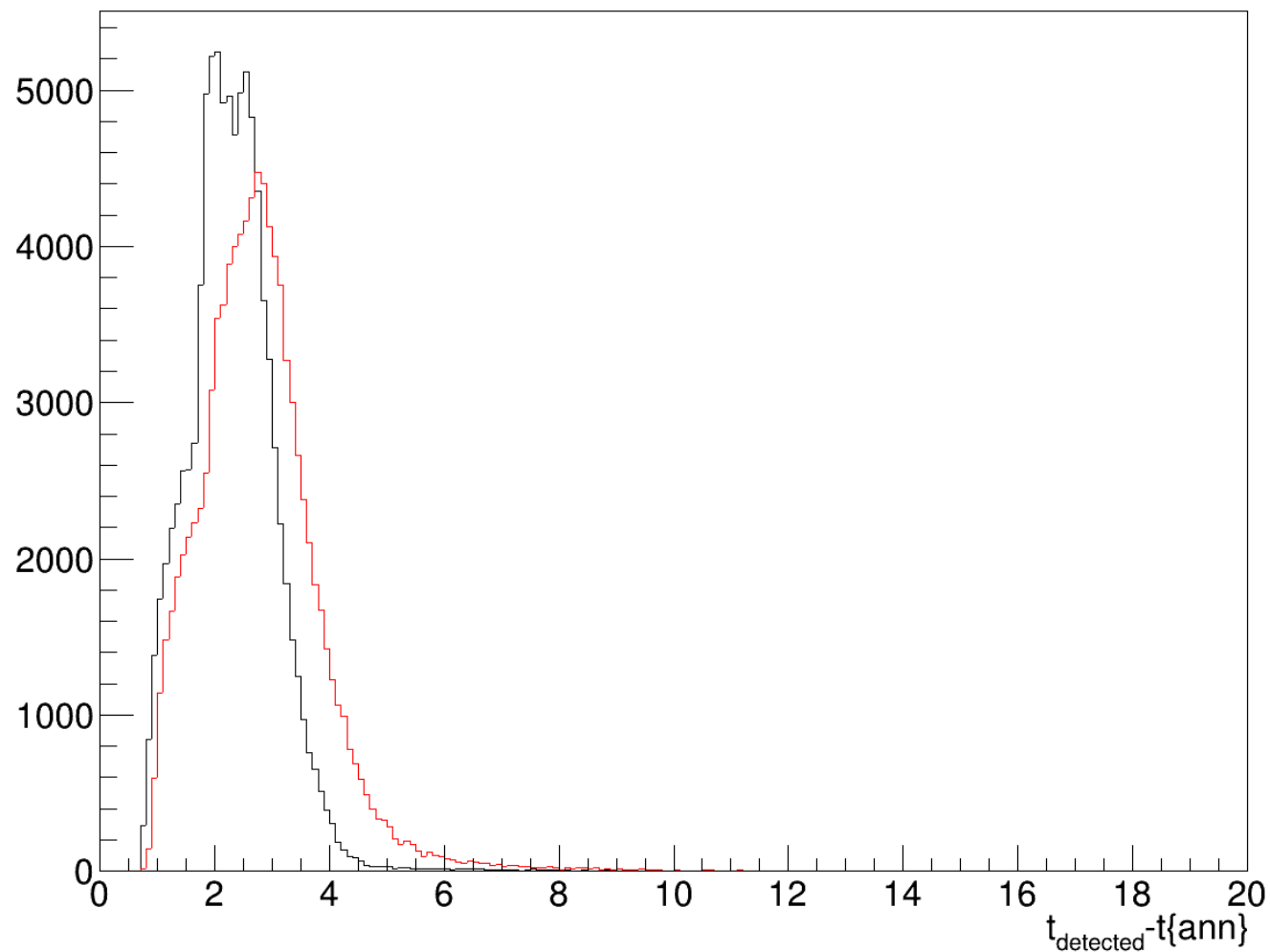
- Difference between the initial position and ann. Position
- The fraction of  $\Delta R < 0.5 \text{ mm}$
- e : 2%
- Pion : 92%



# TOF

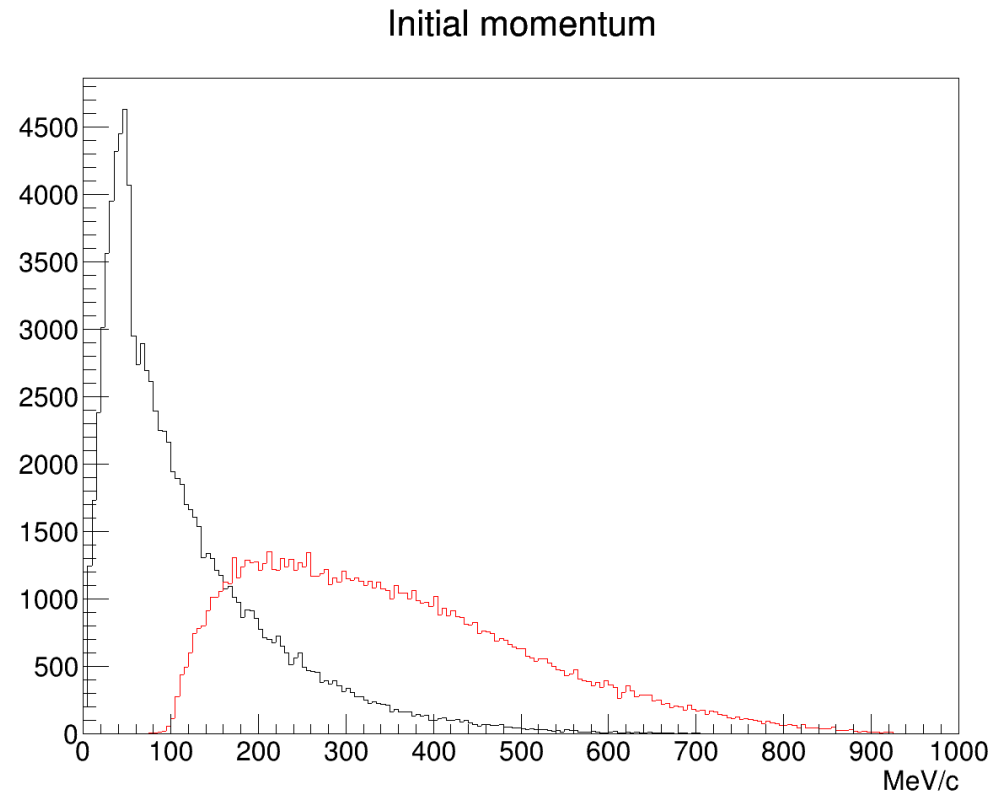
- $t_{hit} - t_{ann}$
- Almost same

TOF



# Initial momentum

- Momentum distributions are different.
- But we cannot determine the momentum.



# Deposit energy

Energy deposit

- Almost same

