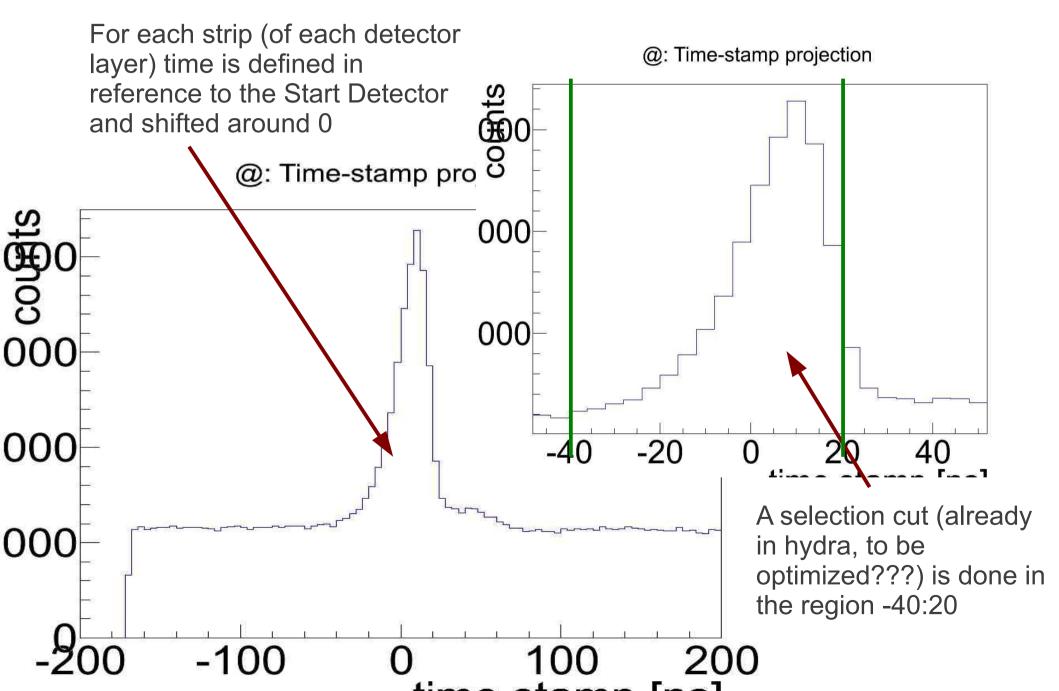
#### Updates on PionTracker

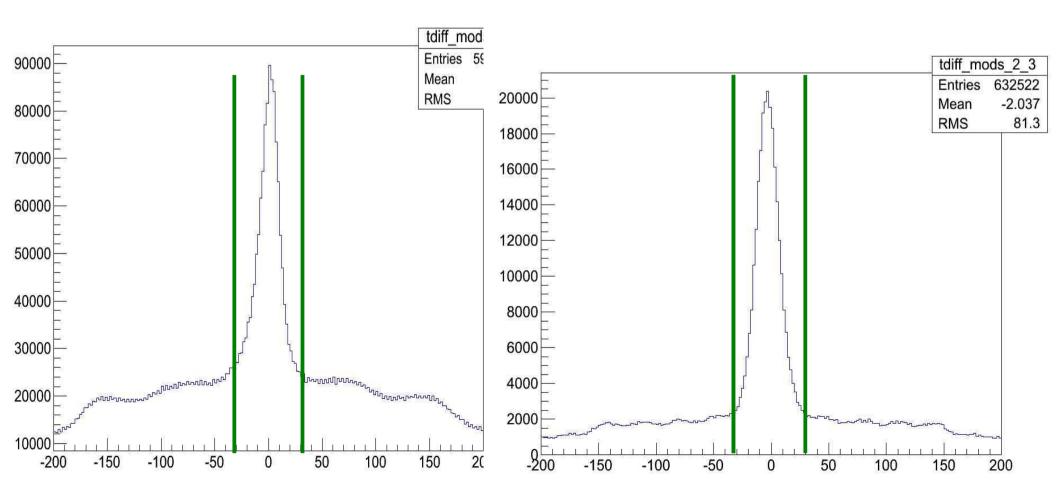
1) Timing Cuts
2) Crosstalk
3) Final multiplicities (candidate pairs)
4) Momentum reconstruction

# **Timing Cuts**



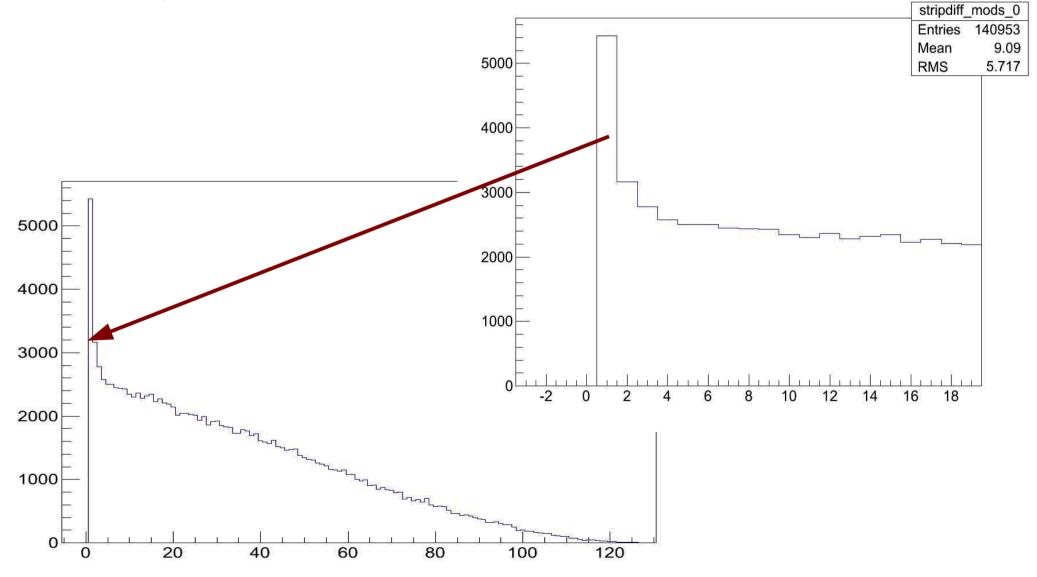
## **Timing Cuts**

For each detector, time difference between X and Y plane is calculated and a (common???) cut is applied to select pion candidates

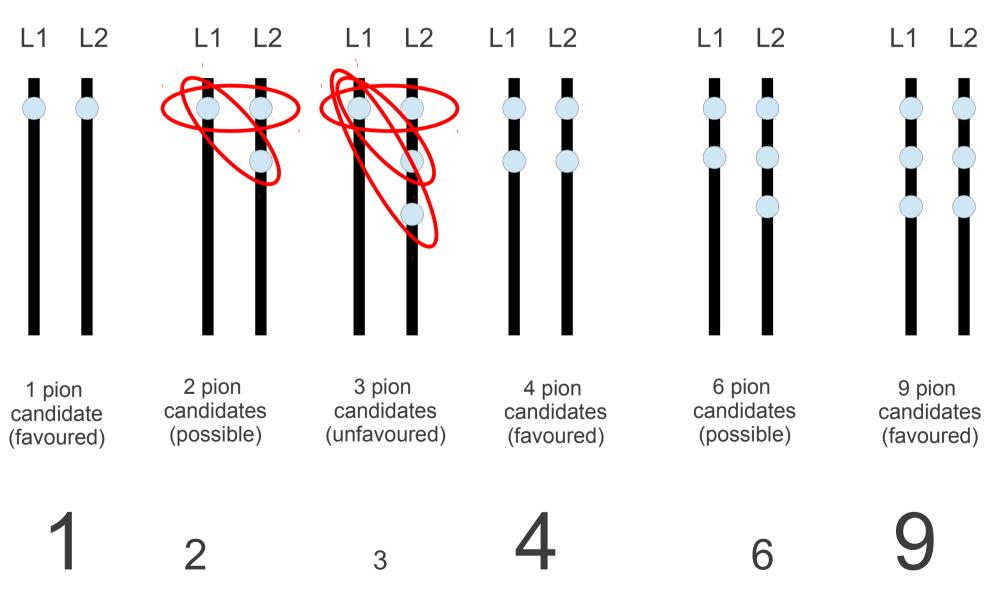


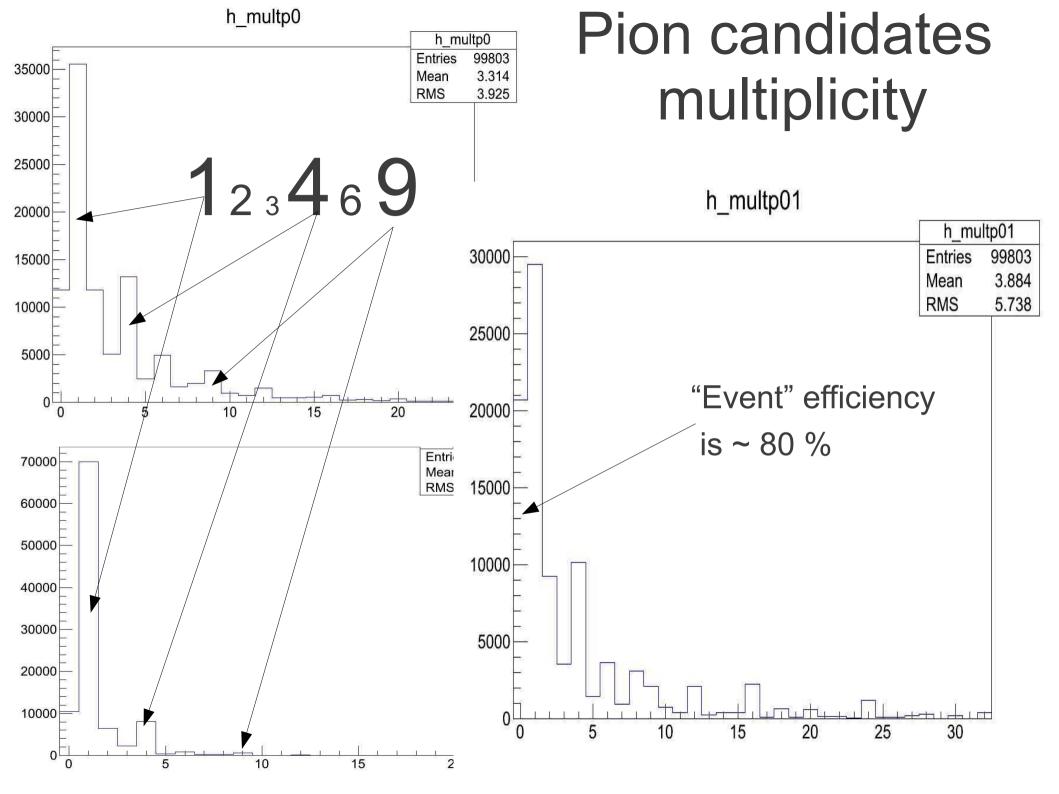
#### Crosstalk

For each strip (of each detector layer) nearby strips can be fired due to crosstalk; this has to be checked and corrected looking at the distance between 2 hits on the same layer

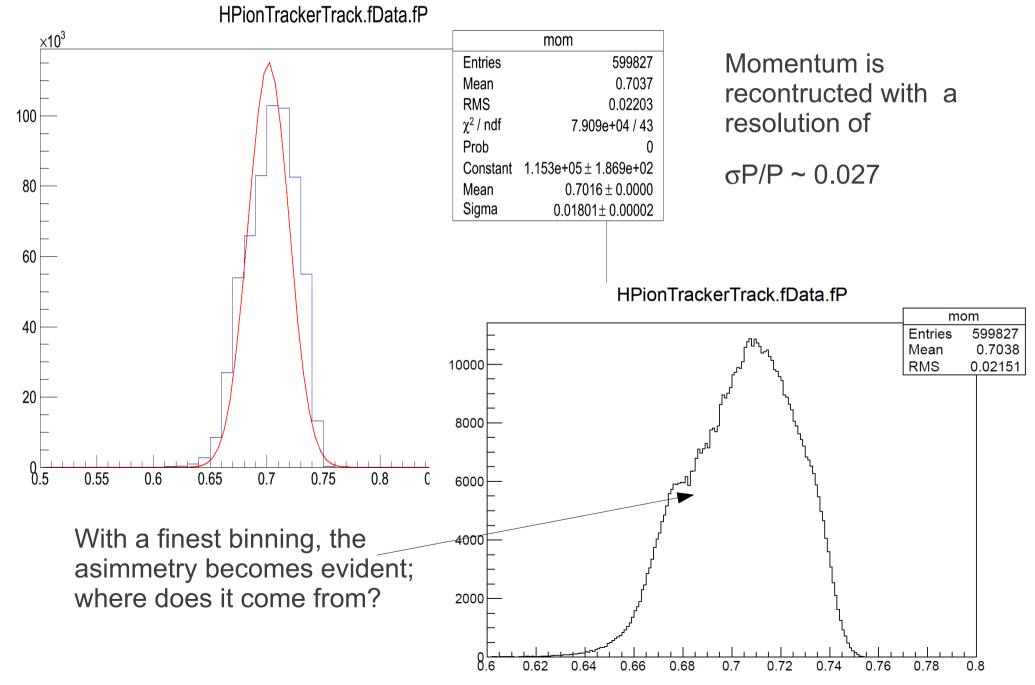


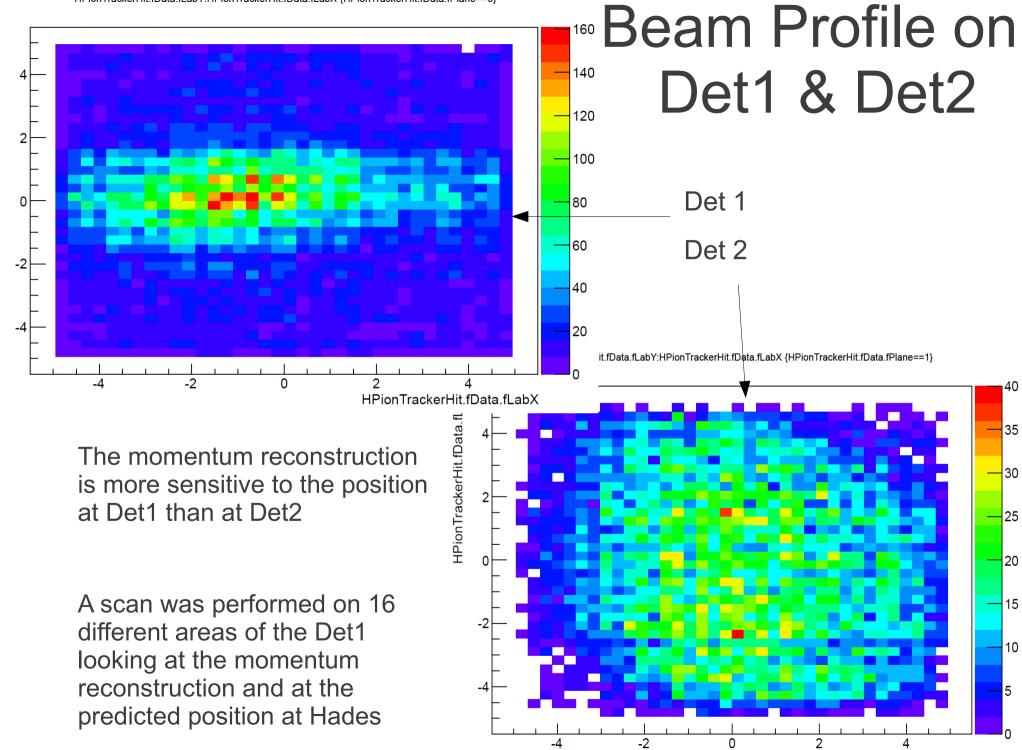
# Pion candidates (pairs) and multiplicity



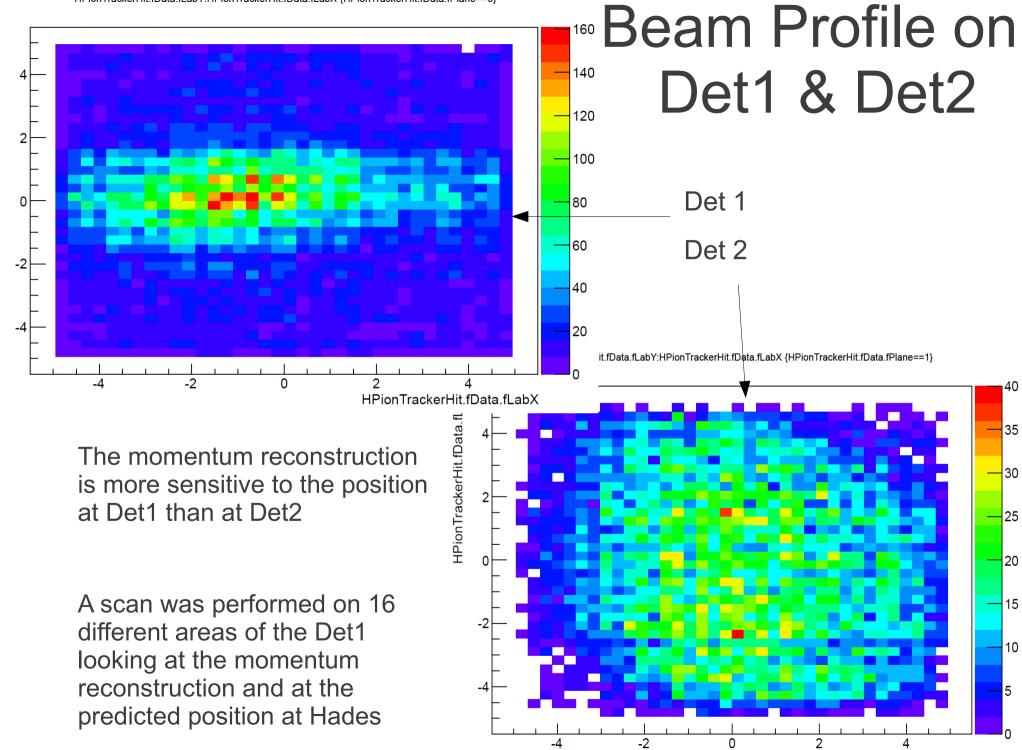


#### **Momentum Reconstruction**



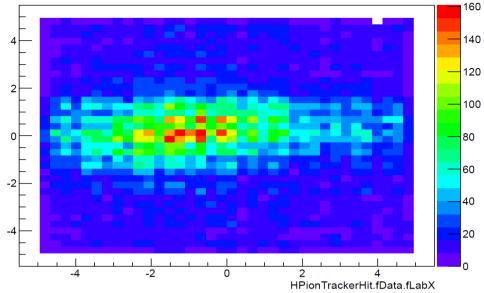


HPionTrackerHit.fData.fLabX

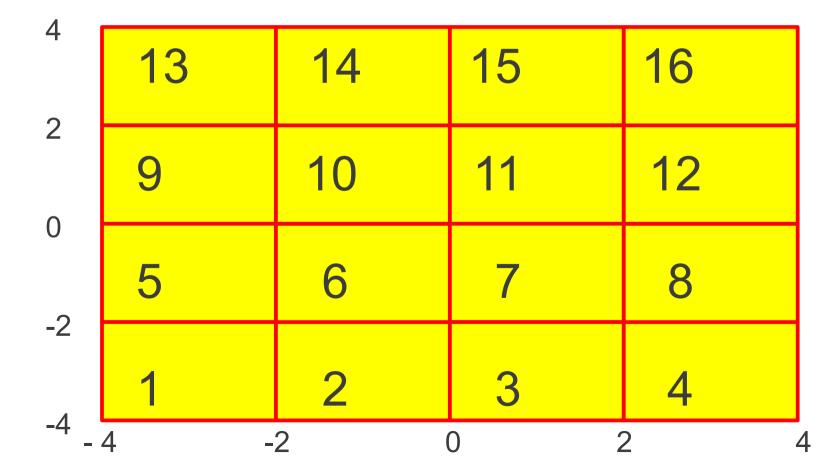


HPionTrackerHit.fData.fLabX

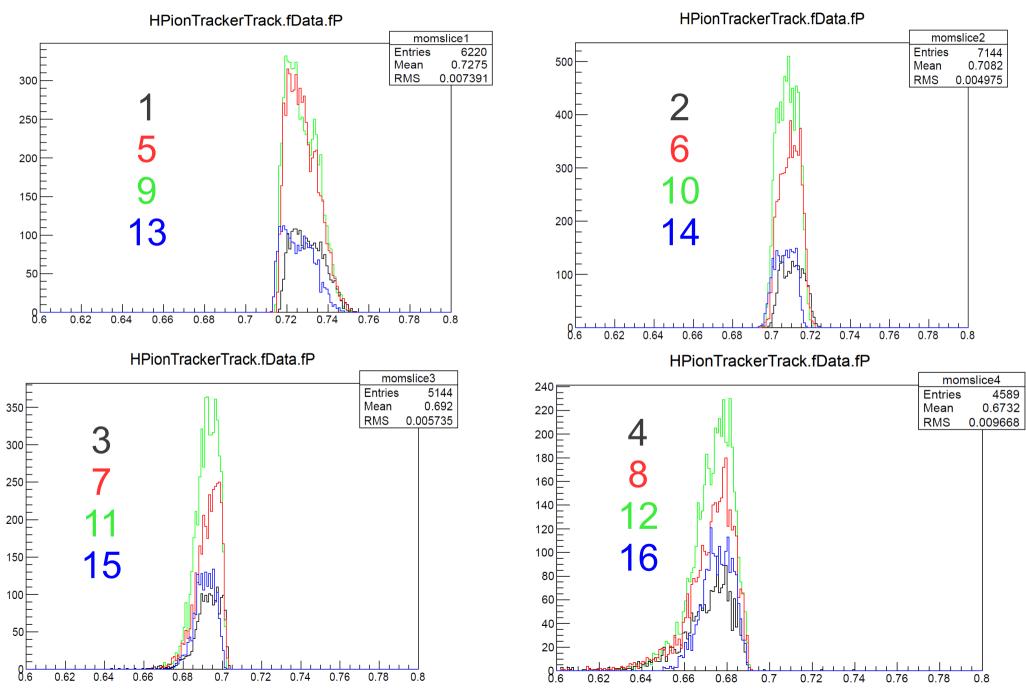
HPionTrackerHit.fData.fLabY:HPionTrackerHit.fData.fLabX {HPionTrackerHit.fData.fPlane==0}

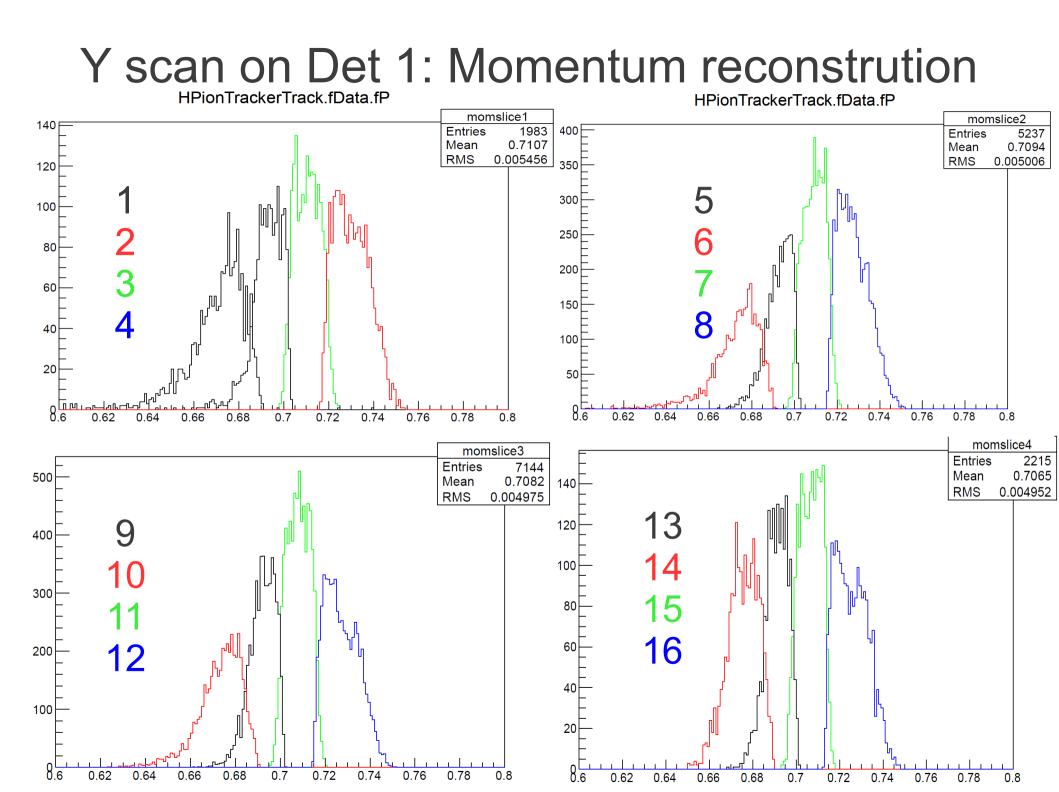


### Position Scan on Det1



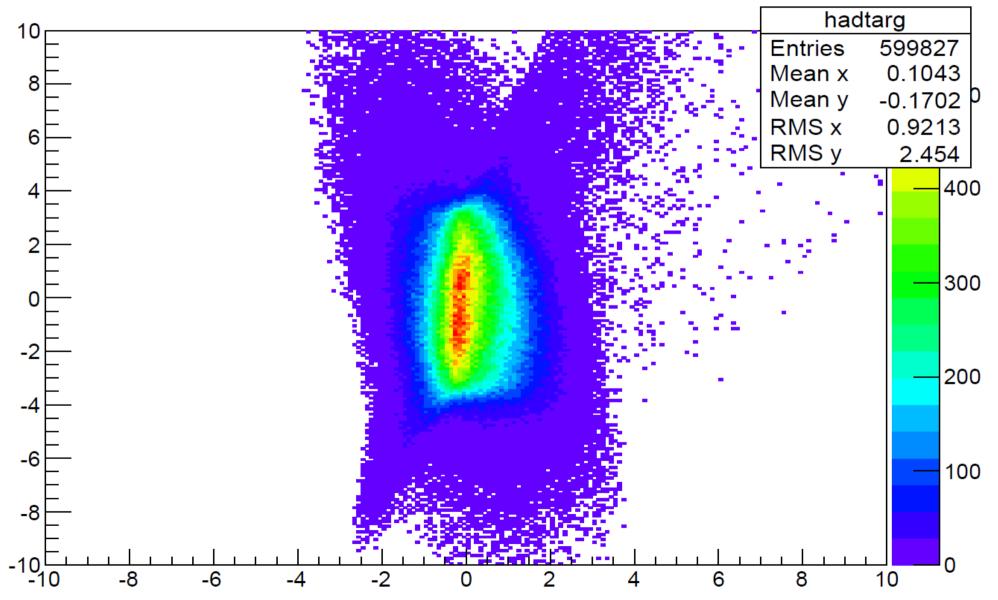
#### X scan on Det 1: Momentum reconstrution





### Predicted hits on the Hades target

HPionTrackerTrack.fData.fYh:HPionTrackerTrack.fData.fXh



#### Predicted hits on the Hades target

