

**Tkr1Dir Vs Tkr1Y0:
2082 and 2083
Electron TW2 - 0 deg runs**

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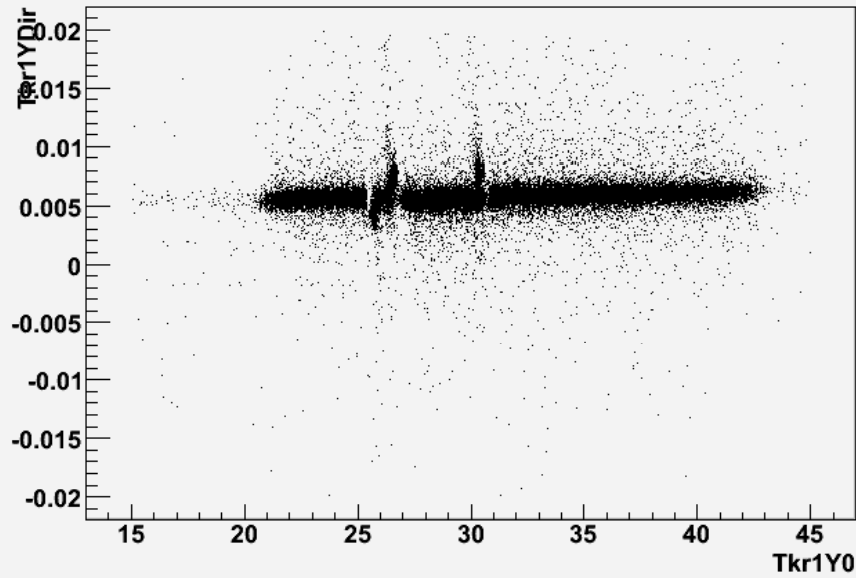
Hit map from recon root data

```
// Tracker recon
tkrRecon = recoevt->getTkrRecon();
if( tkrRecon ) {
  // Tracks
  trackCol = tkrRecon->getTrackCol();
  TIter trackIter(trackCol);
  TkrTrack *track = 0;
  NITrack = 0;
  while ( track = (TkrTrack*)trackIter.Next() ) {
    NITrack++;
    if (NITrack == 1) {
      // loop over hits in this track
      TIter hitIter(track);
      TkrTrackHit *hit = 0;
      while (hit = (TkrTrackHit*)hitIter.Next()) {
        const TkrCluster *cluster = ((*hit).getClusterPtr());
        if (!cluster) continue;
        tid1 = cluster->getTkrid();
        Plane = cluster->getPlane();
        towerX = tid1.getTowerX();
        LastStrip = cluster->getLastStrip();
        FirstStrip = cluster->getFirstStrip();
        for(int istr= FirstStrip; istr < LastStrip+1; istr++) {
          HitMapTrack1[towerX][Plane]->Fill(istr,1.);
        }
      }
    }
  }
}
```

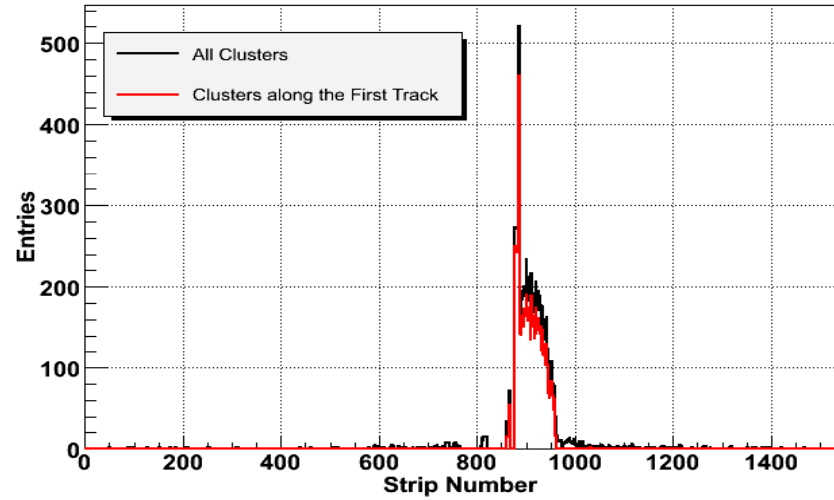
```
// Cluster
clusterCol = tkrRecon->getClusterCol();
TIter tkrlter(clusterCol);
TkrCluster *tkr = 0;
while (tkr = (TkrCluster*)tkrlter.Next()) {
  //loop over TkrCluster collection
  LastStrip = tkr->getLastStrip();
  FirstStrip = tkr->getFirstStrip();
  Plane = tkr->getPlane();
  tid = tkr->getTkrid();
  towerX = tid.getTowerX();
  for(int istr= FirstStrip; istr < LastStrip+1; istr++) {
    HitMapNoCut[towerX][Plane]->Fill(istr,1.);
  }
}
}
```

Run 2082

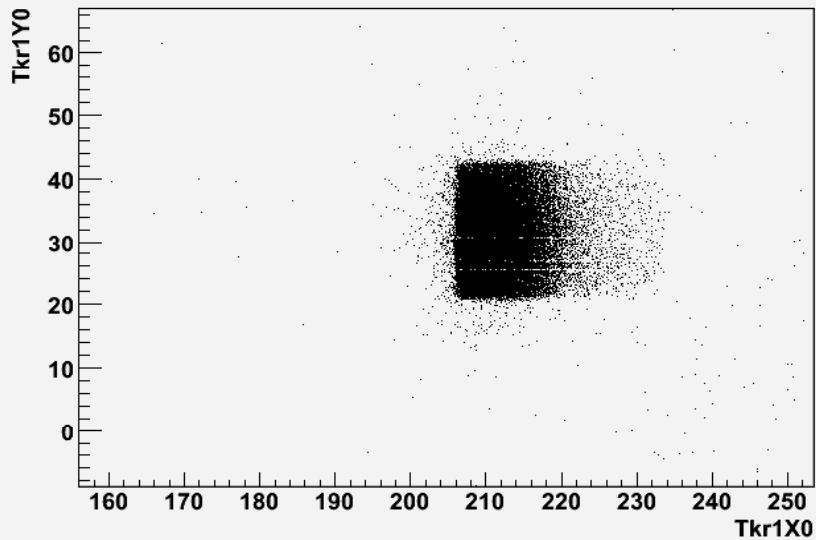
Tkr1YDir:Tkr1Y0 {TkrNumTracks>0&&TMath::Abs(Tkr1YDir)<0.02&&Tkr1Y0>15&&Tkr1Y0<45}



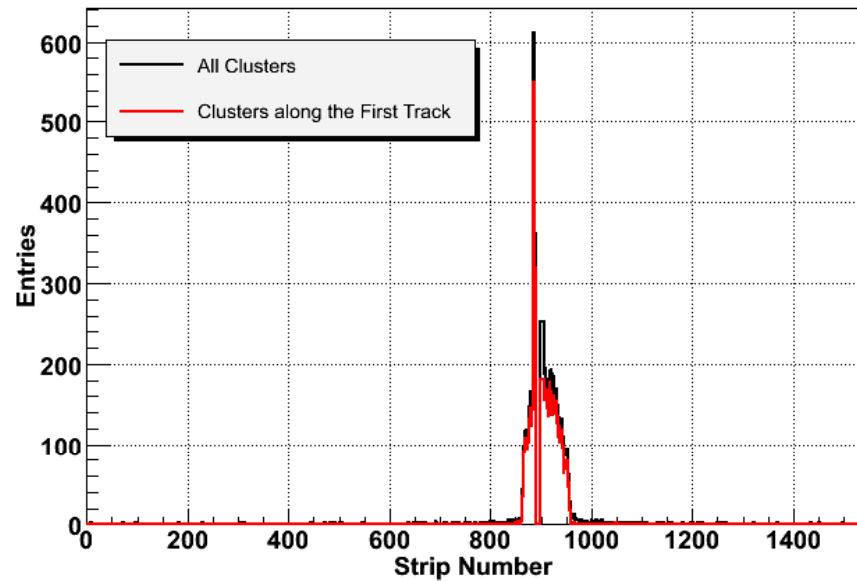
Run = 700002082, Strip Map, Tower = 2, Layer = 31



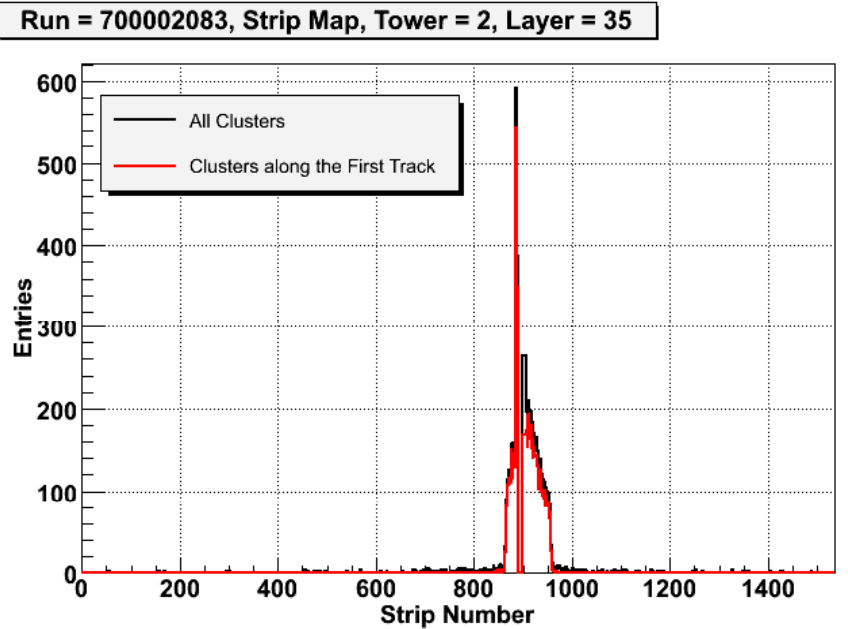
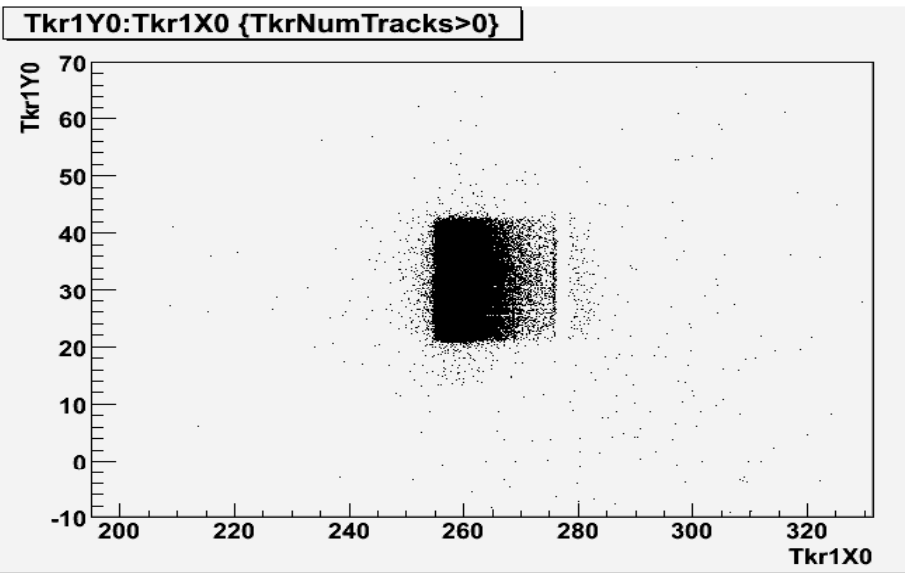
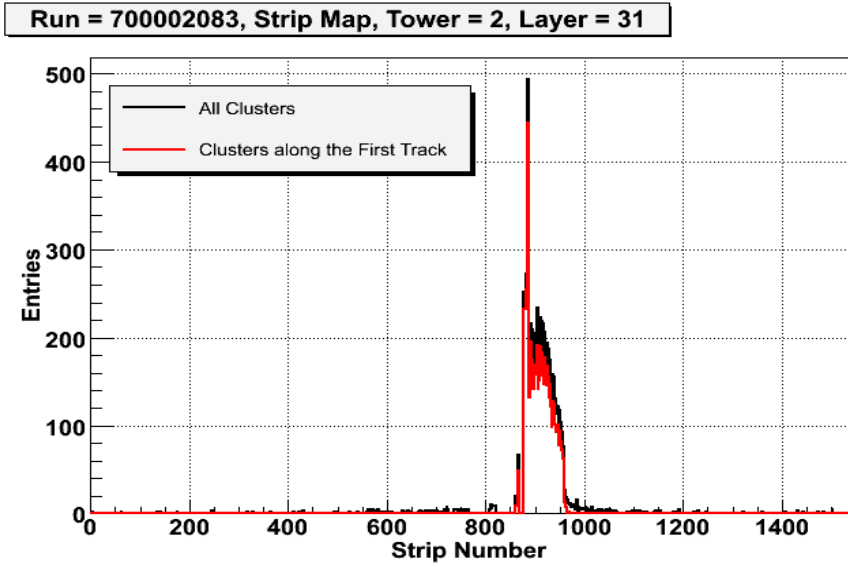
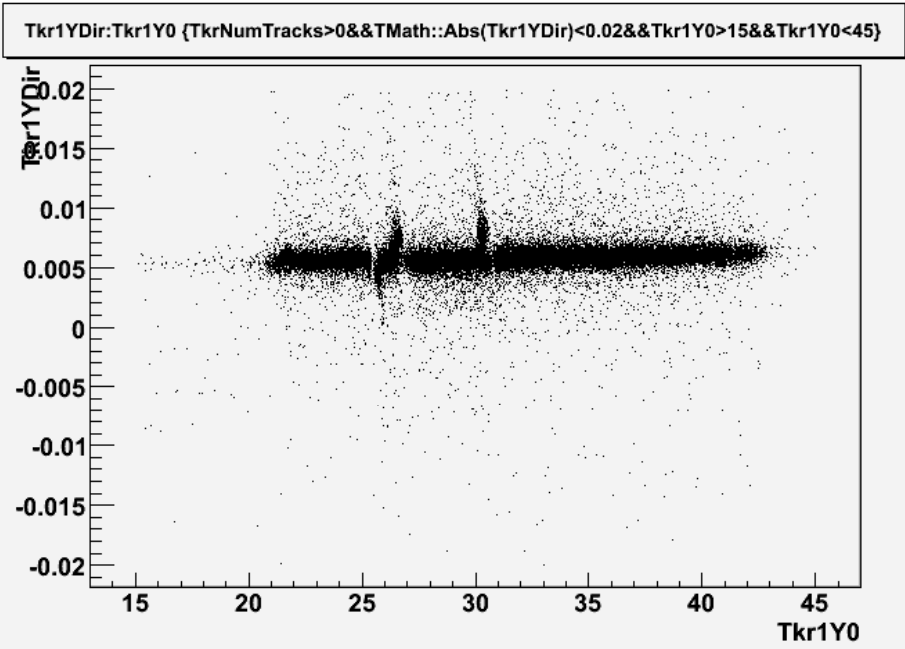
Tkr1Y0:Tkr1X0 {TkrNumTracks>0}



Run = 700002082, Strip Map, Tower = 2, Layer = 35



Run 2083



Conclusion

- The weird structure in the Tkr1YDir is due to noisy strips in the planes 31 and 35
- Hint: the noisy strips could be masked in the tracking algorithm