

Telescope Reconstruction with TAF

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Clustering WG meeting
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Plane 2

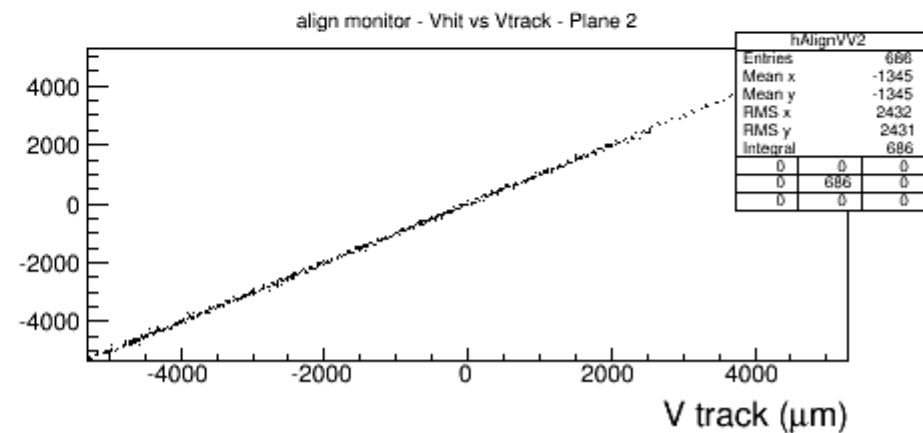
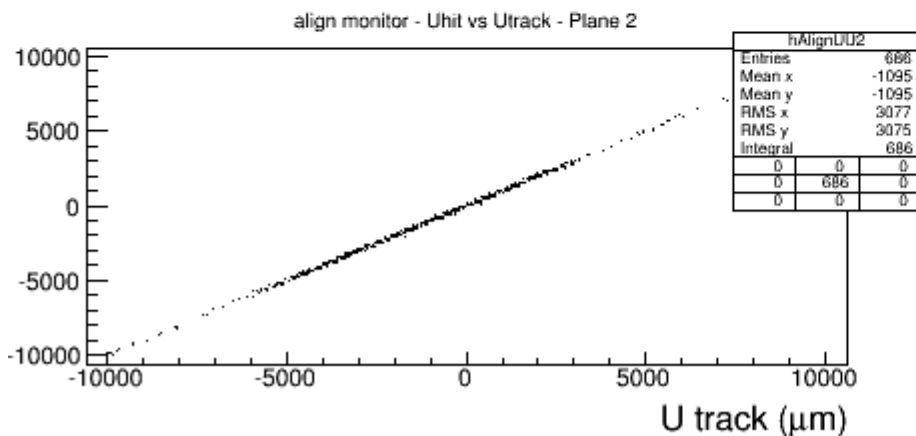
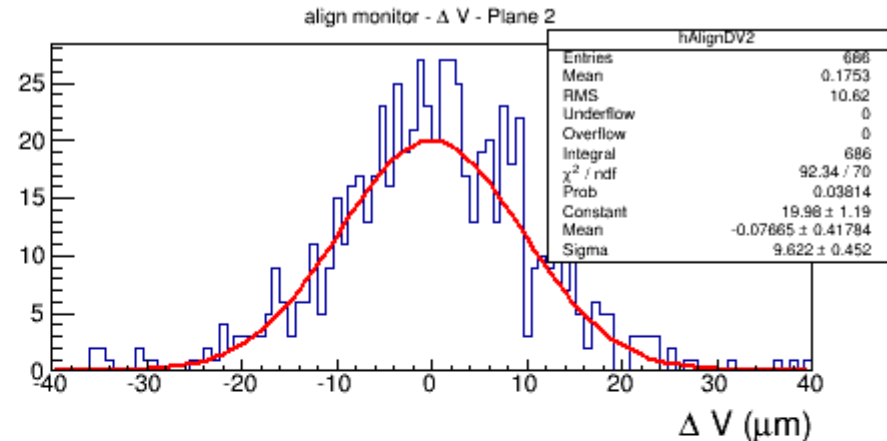
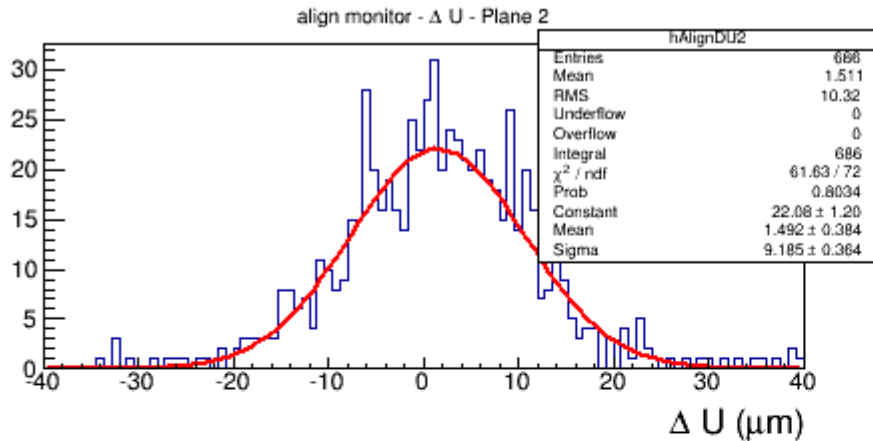
Default accuracy:

```
Float_t limitShift=0.5; // microns, ....
Float_t limitTilt=0.1; // degrees
```

PositionsX: 0.426
TiltZ: 0.035

PositionsY: 0.191
TiltY: 0.000

PositionsZ: 200.000
TiltX: 0.000

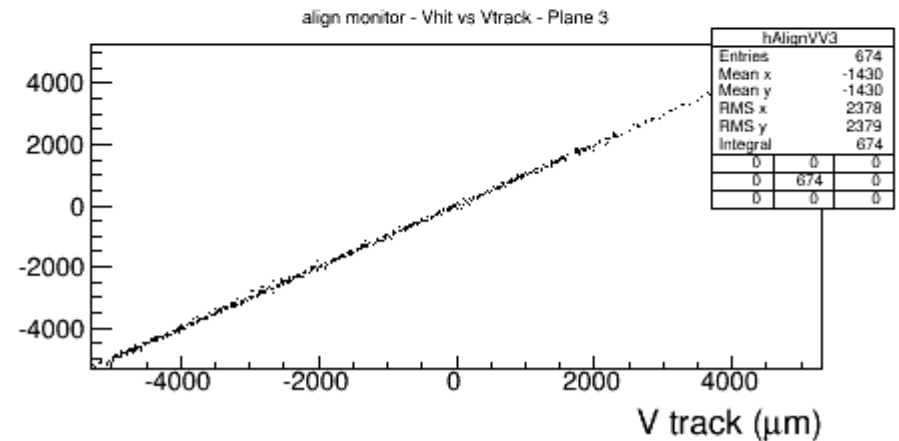
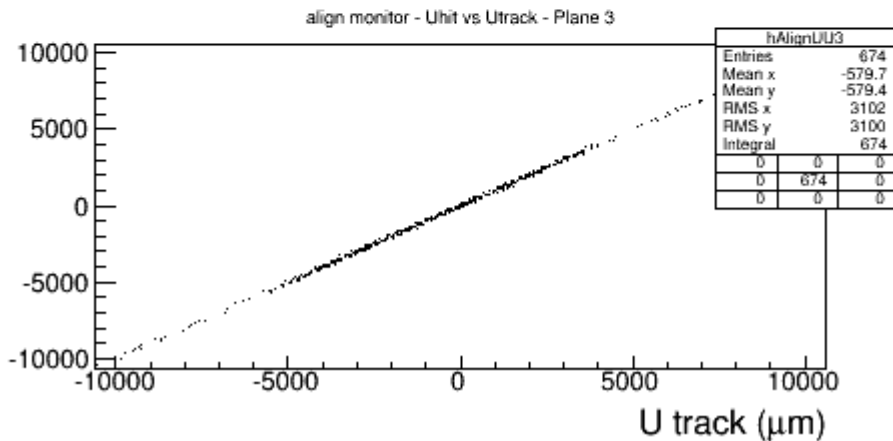
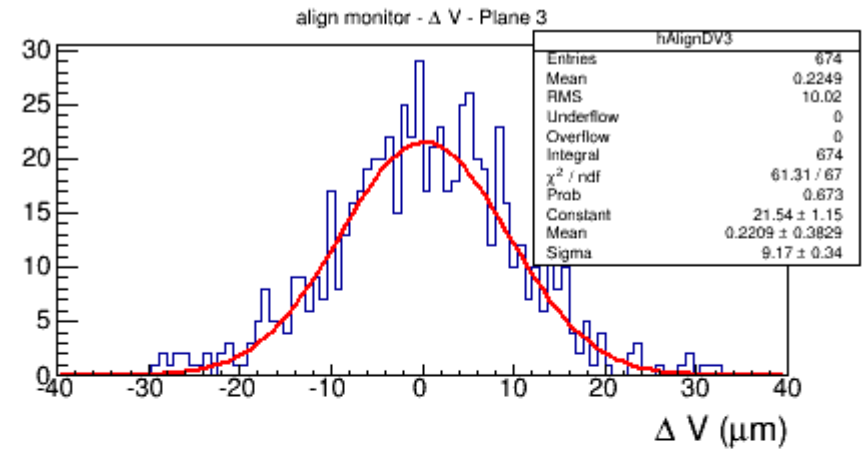
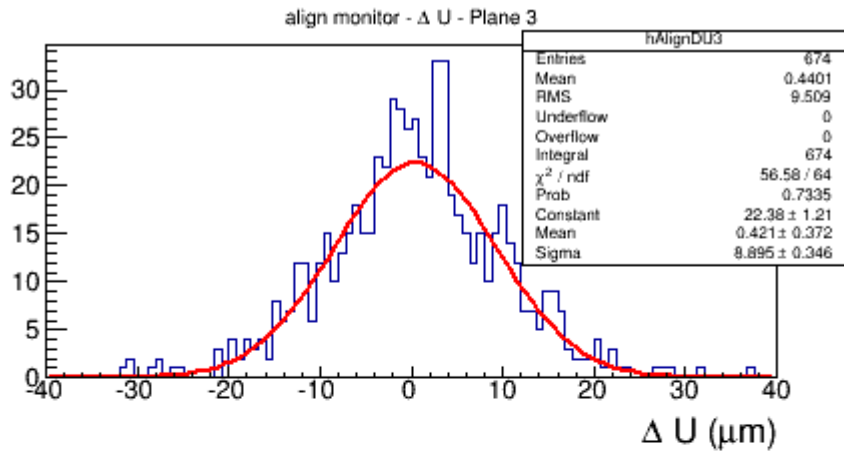


Plane 3

PositionsX: -0.227
TiltZ: -0.142

PositionsY: 0.287
TiltY: 0.000

PositionsZ: 400.000
TiltX: 0.000

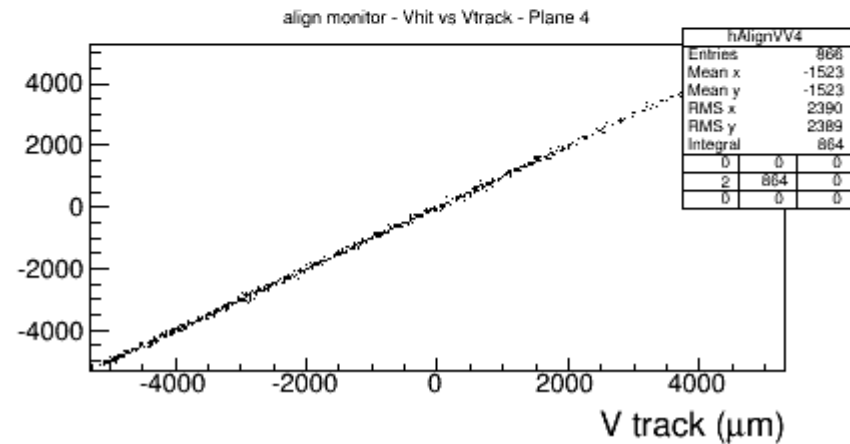
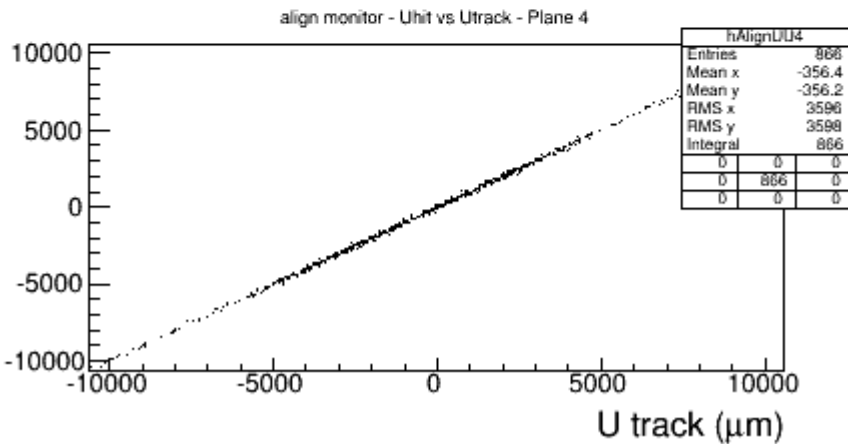
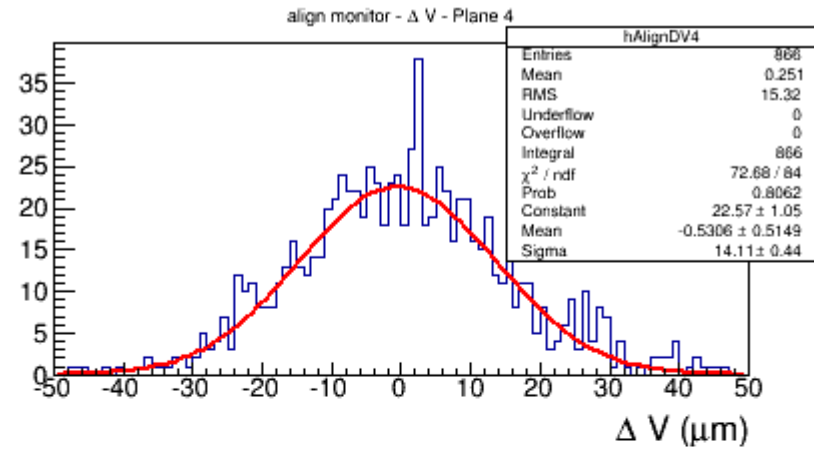
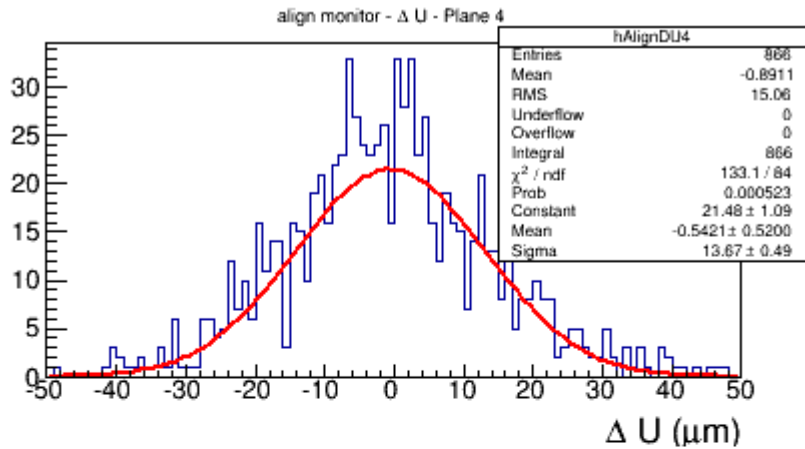


Plane 4

PositionsX: -0.336
TiltZ: -0.268

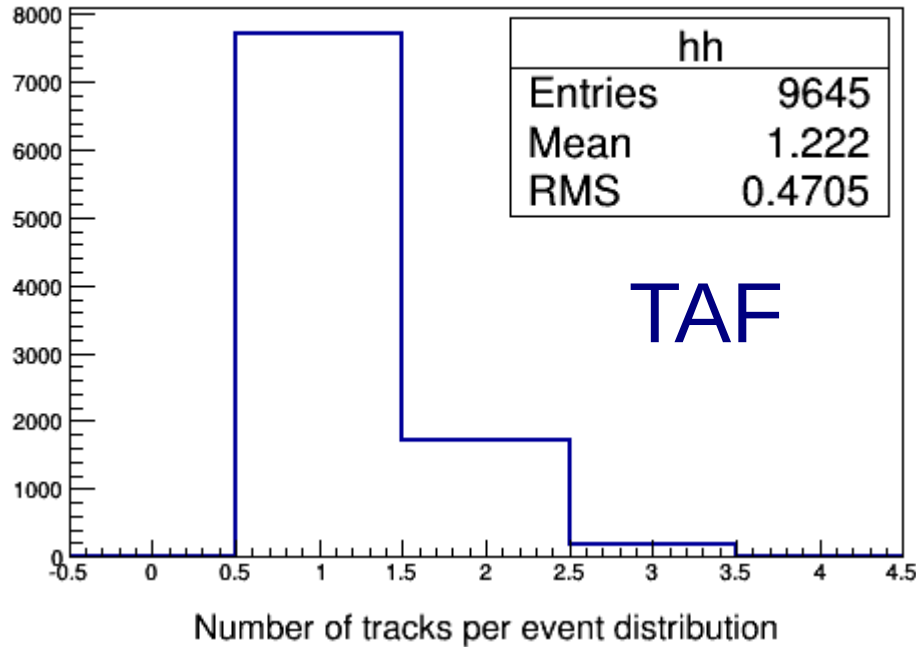
PositionsY: 0.471
TiltY: 0.000

PositionsZ: 600.000
TiltX: 0.000



Number of tracks, Run 166

TtN {Tpk==1}



Track reconstructed: 9645

with 1 hits: 0

with 2 hits: 0

with 3 hits: 2920

with 4 hits: 6725

Number of tracks reconstructed from plane number:

pl 1: 8929 pl 2: 9257 pl 3: 9175 pl 4: 8299

Board PXIe 0 with trigger mode 0, building mode 0 found:

7367 triggers valid, 168 triggers invalid.

30140 events in total,

0 events with an overflow (veto overflow 0).

0 DUT sensors defined:

2297 acquisitions read overall.

30140 frames read overall.

0 frames read twice.

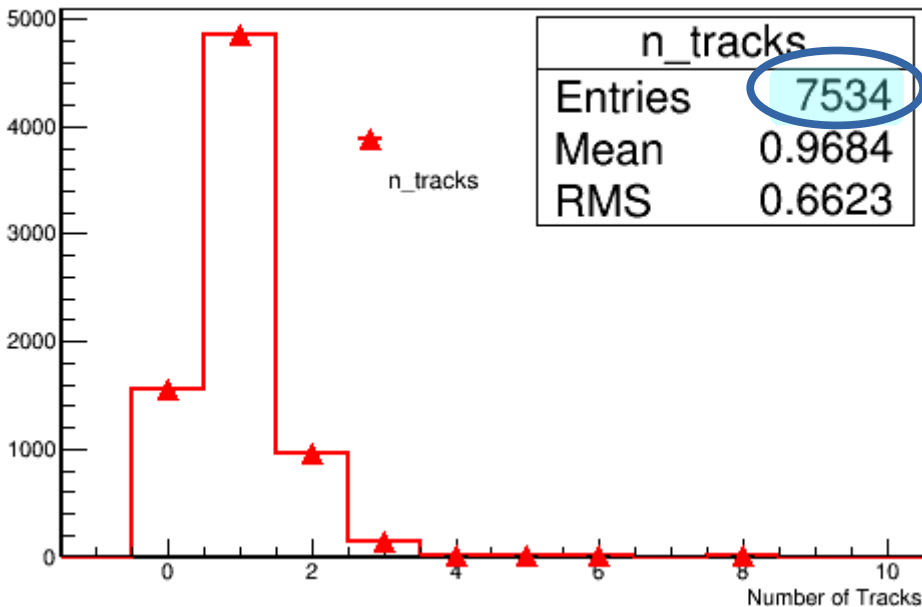
0 events aborted.

0 events missed with a specific frame required.

168 frames with an incorrect trigger info.

average #states in line: 1.00942 with RM: 0.0991282

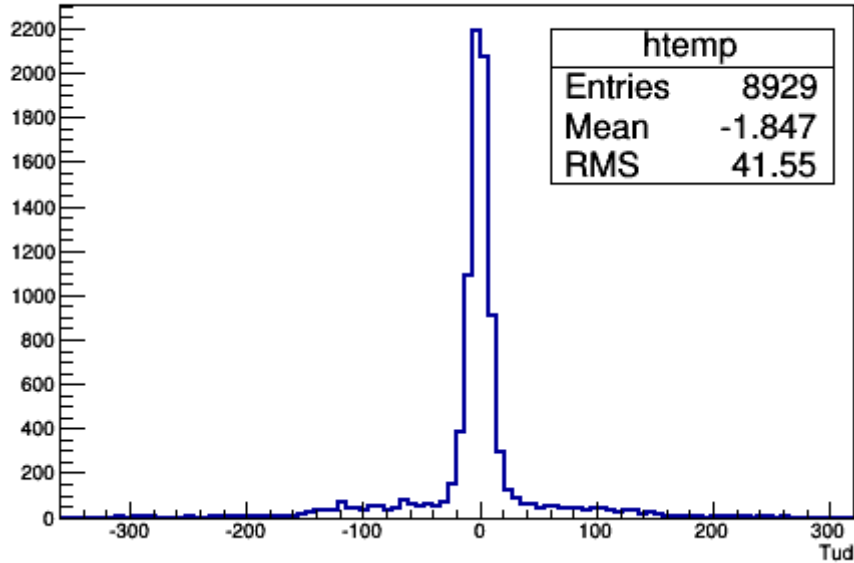
average #states in block: 0.0143526 with RM: 0.118944



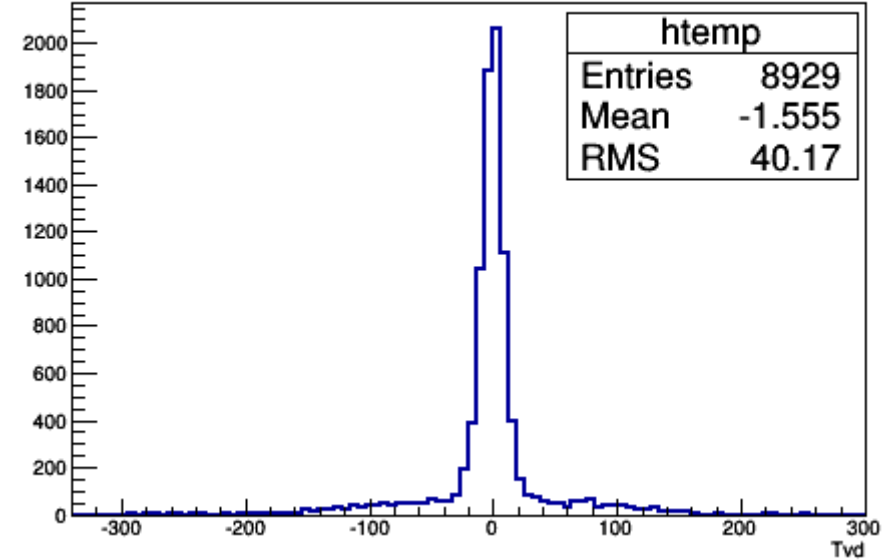
$$7367 + 168 = 7535$$

Residuals, TAF, run 166

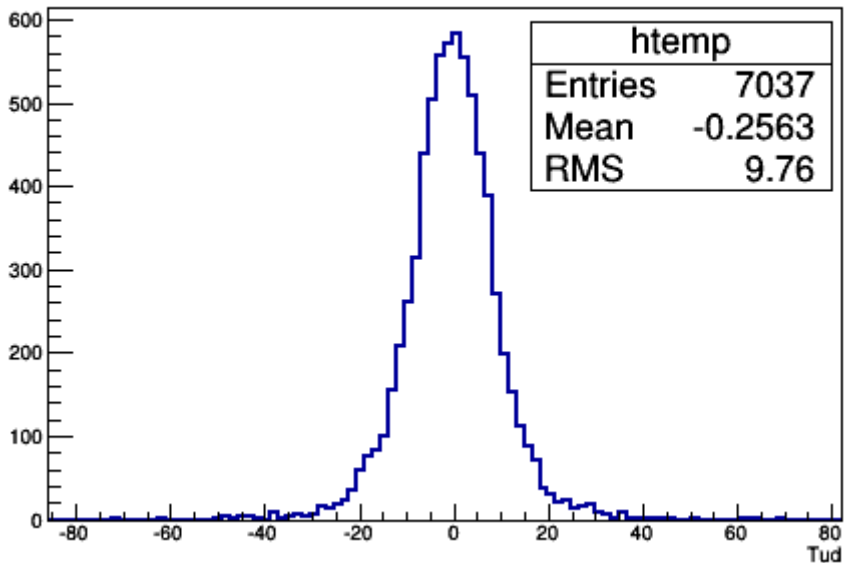
Tud {Tpk==1 && Thk<0}



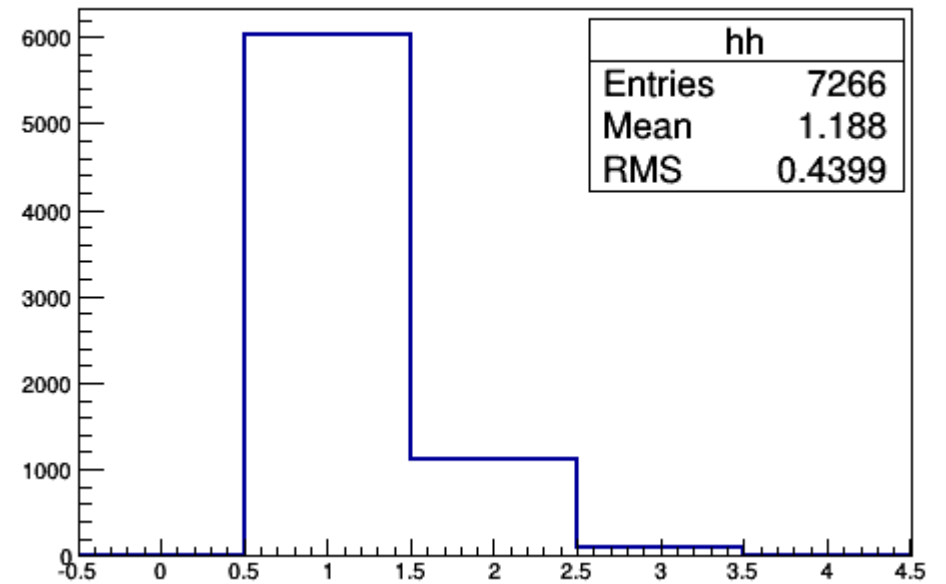
Tvd {Tpk==1 && Thk<0}



Tud {Tpk==1 && Thk<0 && Tchi2<300}



TtN {Tpk==1 && Tchi2<300}



Summary

- Track reconstruction in telescope with TAF works reasonably good.
- There are some TAF configuration parameter and output information to understand.