

For the 70/30 runs there are two runs: run 43 and run 44:

- Run 43 – 5.5M Sci.Coinc. (~ 100 k events in straw 14)
- Run 44 – 59M Sci.Coinc., **but have no synchronization.**
Recoverable, but time consuming.

Seems, we have good statistics for 70/30

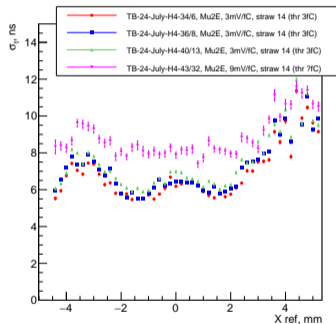
For the 93/7 runs there are two runs: run 50 and run 53:

- Run 50 – ~ 12 k events in straw 14
- Run 53 – ~ 700 k events in straw 14

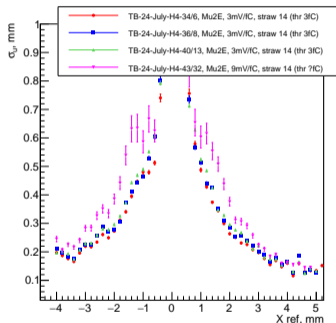
Seems, we have enough statistics for 93/7

Resolution Ar:CO₂ 70:30, straw 14, 200 μ m bin

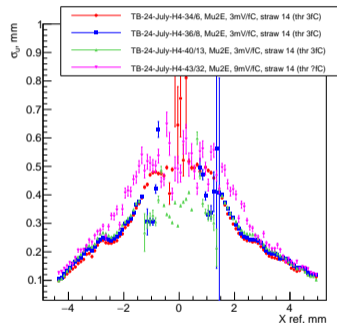
Time resolution



Spatial resolution, derivative method



Spatial resolution, ShipWay method



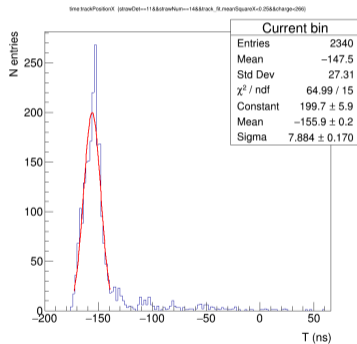
- Red, Blue, Green – 3 mV/fC, thr 2.8 fC
- Magenta – 9mV/fC, thr unknown

Multiple problems:

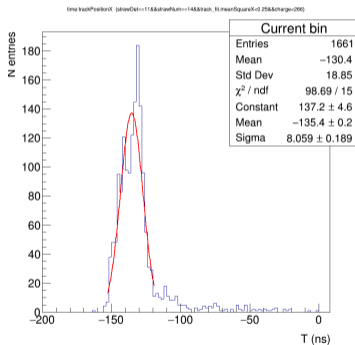
- Seems, the time calibration from 3mV/fC does not work. . .
- With the current calibration I see resolution decrease from 3mV/fC

Resolution Ar:CO₂ 70:30, straw 14, 200 μ m bin

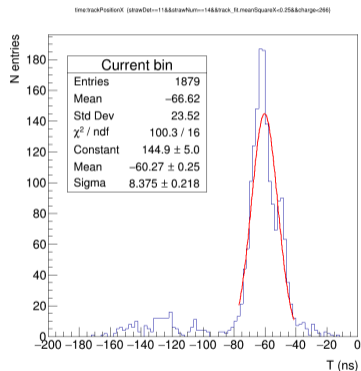
0.6mm from wire



2.0mm from wire



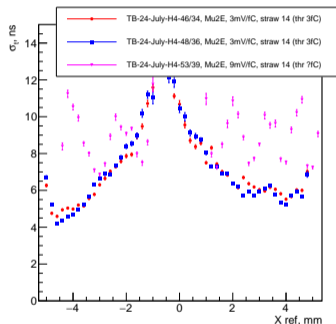
4.2mm from wire



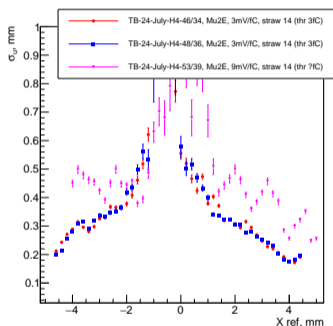
fits more or less works

Resolution Ar:CO₂ 93:7, straw 14, 200 μ m bin

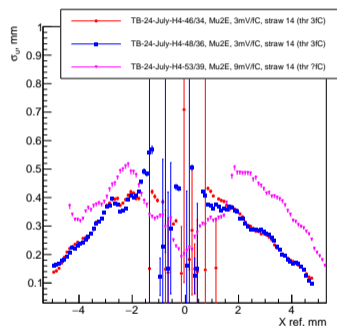
Time resolution



Spatial resolution, derivative method



Spatial resolution, ShipWay method



- Red, Blue – 3 mV/fC, thr 2.8 fC
- Magenta – 9mV/fC, thr unknown

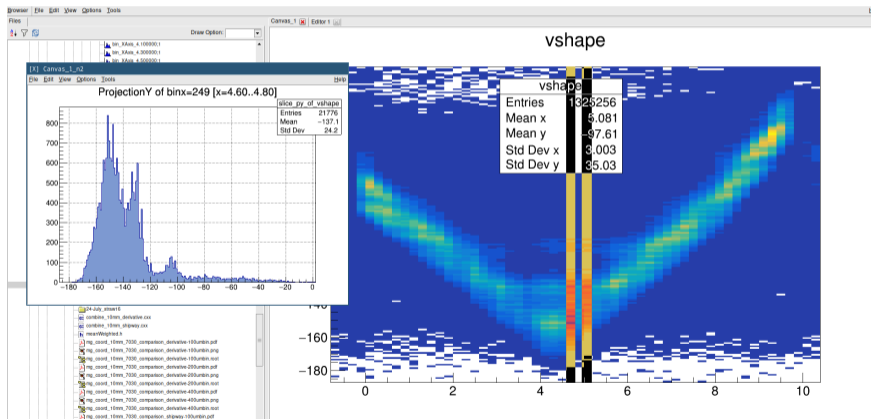
Multiple problems:

- Problem with fitting
- Seems, the time calibration from 3mV/fC does not work...
- With the current calibration I see resolution decrease from 3mV/fC

9mV/fC time calibration problem example

Problem with calibration for Ar:CO₂ 93:7, straw 14, 200 μ m bin

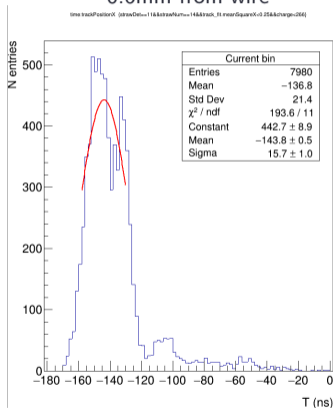
Time distribution for the bin near wire



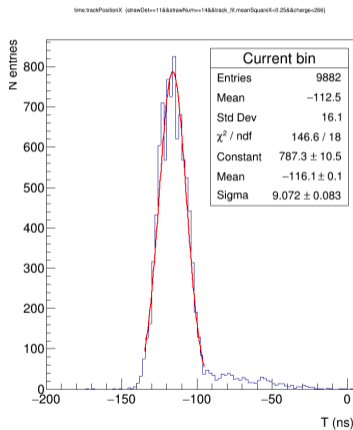
Noisy data and the time calibration problem ...

Resolution Ar:CO₂ 93:7, straw 14, 200 μ m bin

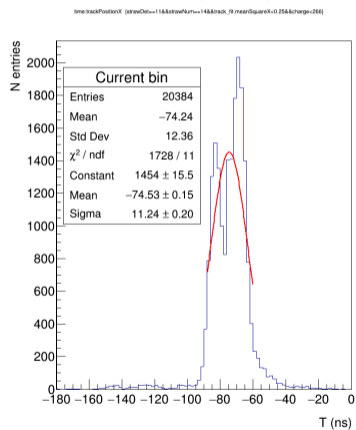
0.6mm from wire



2.0mm from wire



4.2mm from wire



Problem with fits... Need to improve