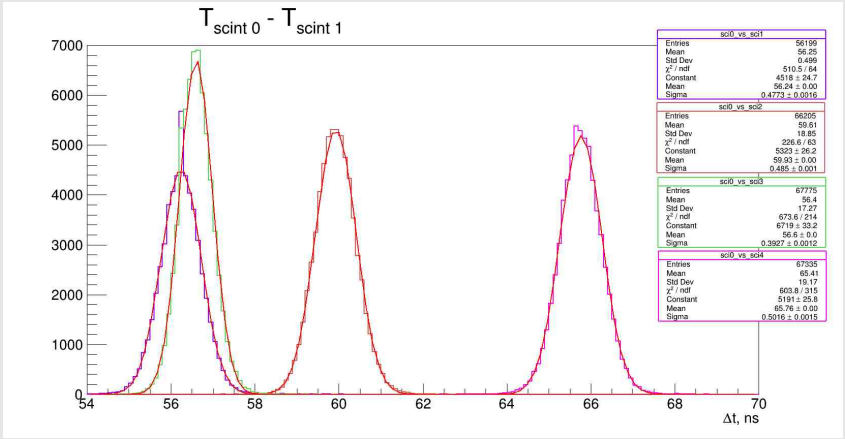
TB status, *[2023-05-19 Fr]*

Straw TB team

May 19, 2023

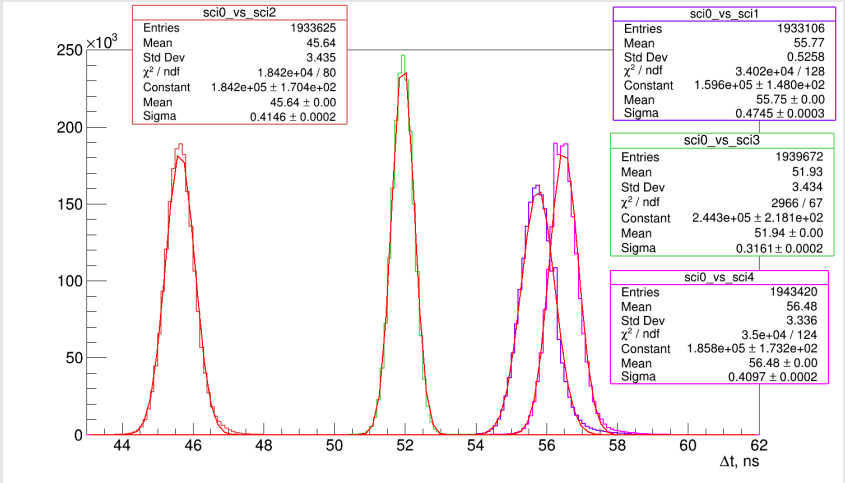
Δ T (Scint), april TB

2023 April TB



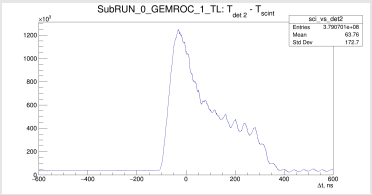
Δ T (Scint), beamdump

BeamDump

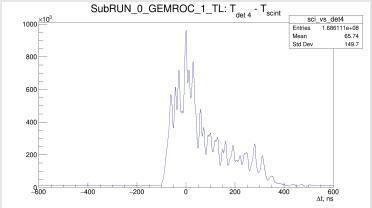


MM Drift time

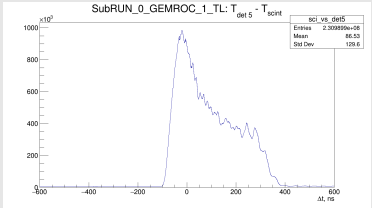
MM0



MM2

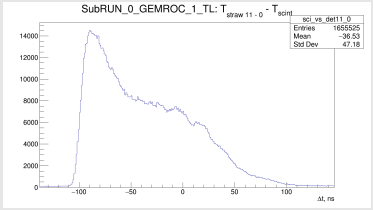


MM3

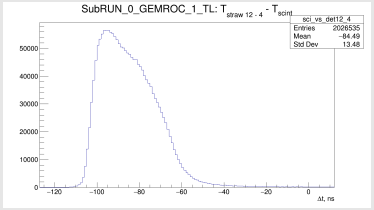


Straw Drift time example

10mm

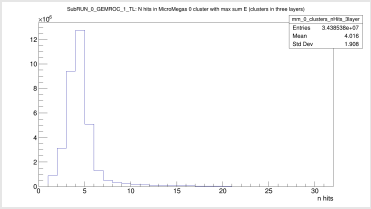


5mm

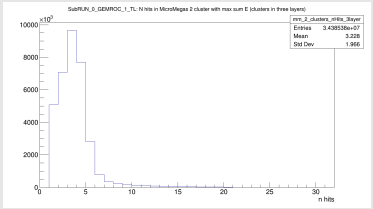


nHits for clusters in MM

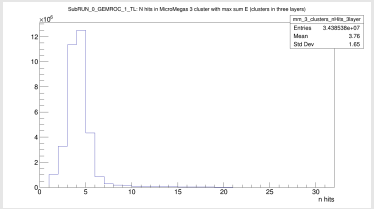
MM0



MM2

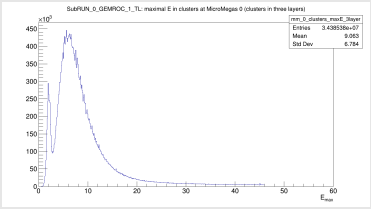


MM3

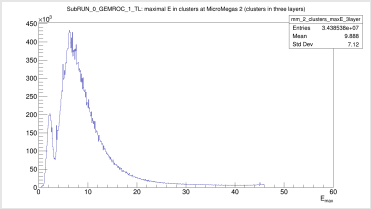


eMax for clusters in MM

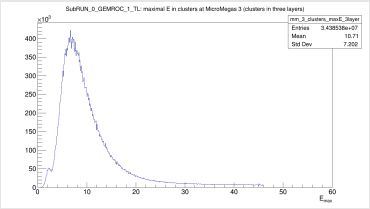
MM0



MM2

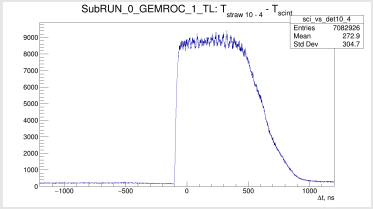


MM3

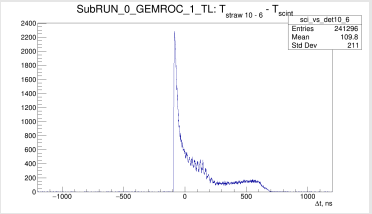


20mm Straw Drift times

20mm, during TB

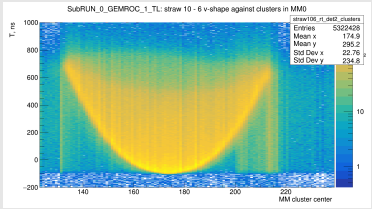


20mm, beamdump

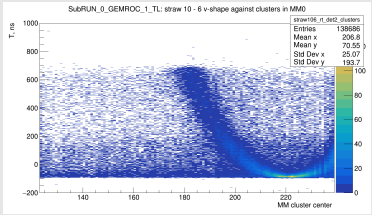


20mm Straw RT

20mm, during TB



20mm, beamdump



Setup should be rotated ~1.27 degrees (back to Jura)

Statistics

During TB

- 20mm, HV 2100: About 9.8B / straw (need 200K)
- 10mm, HV 1750: About 29B / straw (need 100K)
- 5mm, HV 1500: About 12B / straw (need 50K)

During TB, with Timepix data:

Maximal possible values:

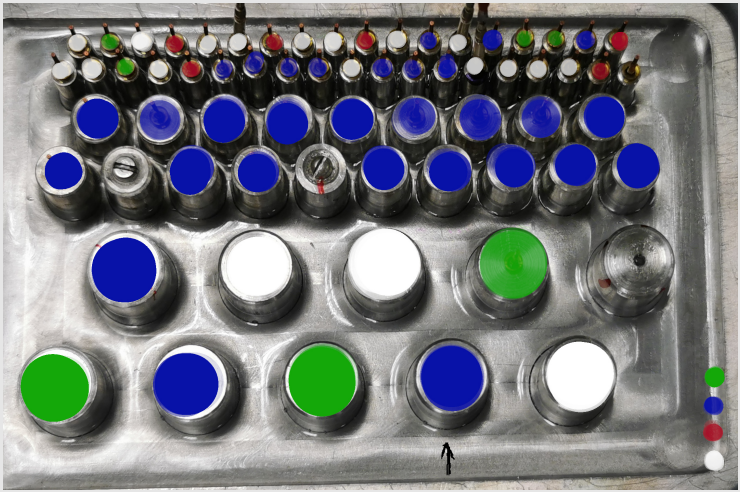
- 20mm, HV 2100: About 10M / straw (need 200K)
- 10mm, HV 1750: About 18M / straw (need 100K)
- 5mm, HV 1500: About 10M / straw (need 50K)

BeamDump

- 20mm, HV 2100: About 30K / straw (need 200K)
- 10mm, HV 1750: About 45K / straw (need 100K)
- 5mm, HV 1500: About 10K / straw (need 50K)
- 5mm, HV 1350: datataking in progress

Straw rating

Straw rating



Description

- Green: good
- Blue: average
- Red: bad
- White: Problematic (not connected?)

Additional

- Most of "white" 5mm straws seems not dead, but has narrow noise peak.
- If thr seted step lower, no signal from straws. Otherwise, high noise.
- May be the tiger problem? I do not seen that on "test" tiger.