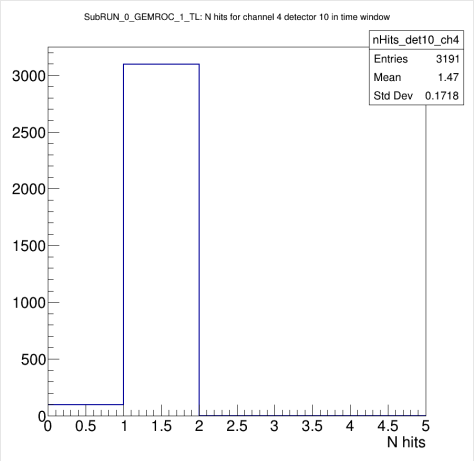
TB status, *[2023-06-02 Fr]*

Straw TB team

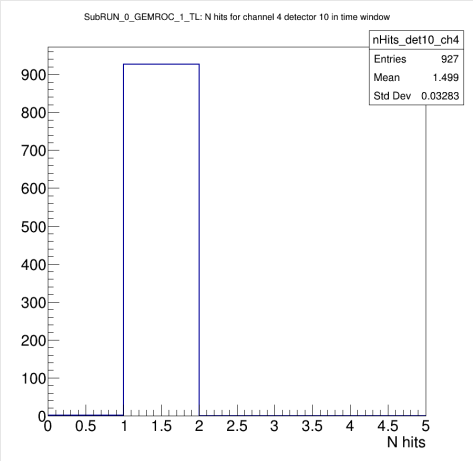
June 2, 2023

N hits to 20mm straw (straw #4)

TB

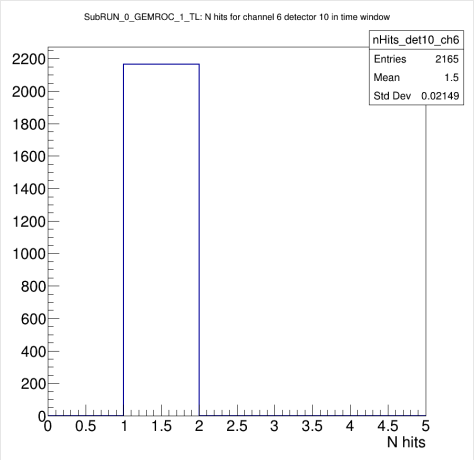


BeamDump

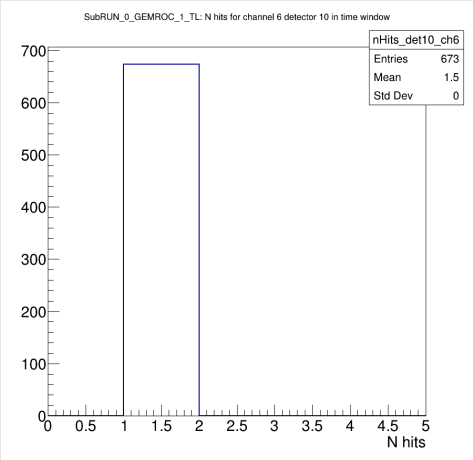


N hits to 20mm straw (straw #6)

TB

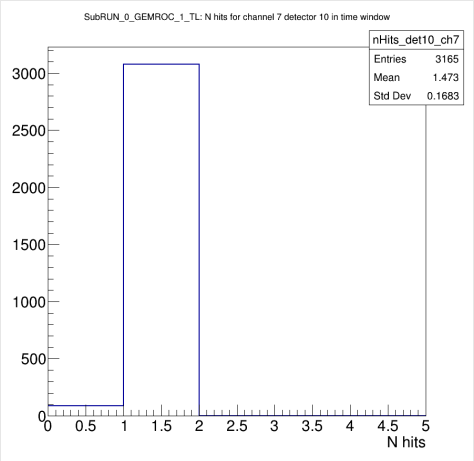


BeamDump

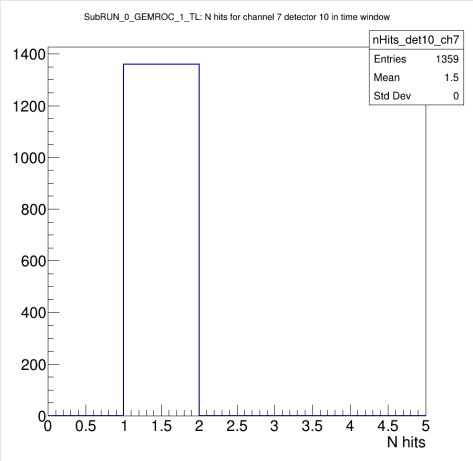


N hits to 20mm straw (straw #7)

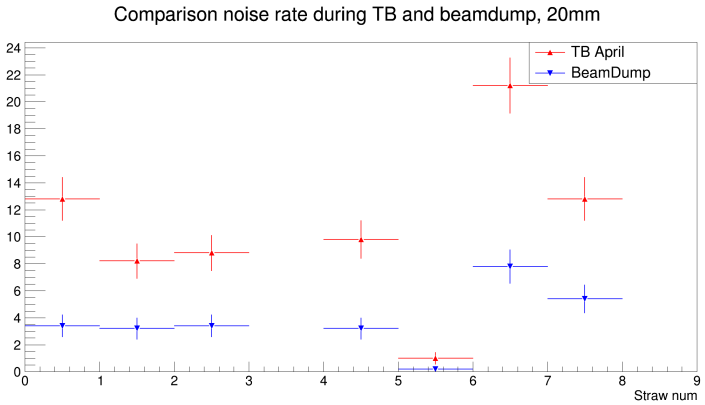
TB



BeamDump

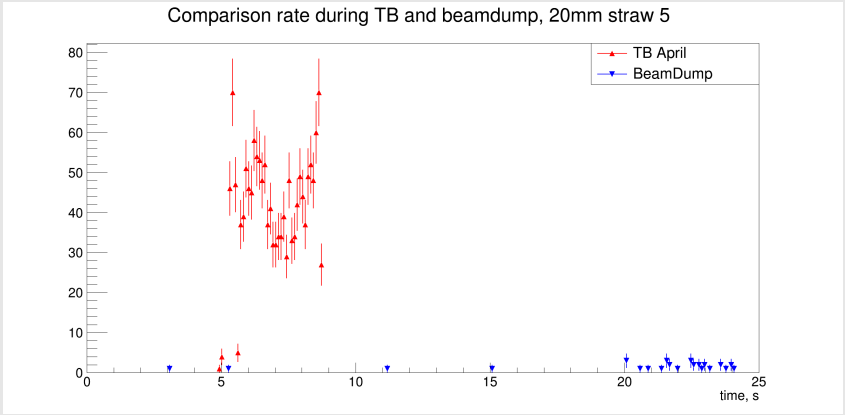


Comparison between noise straw rate (without corellation to scint)



Comparison between straw rate (without corellation to scint)

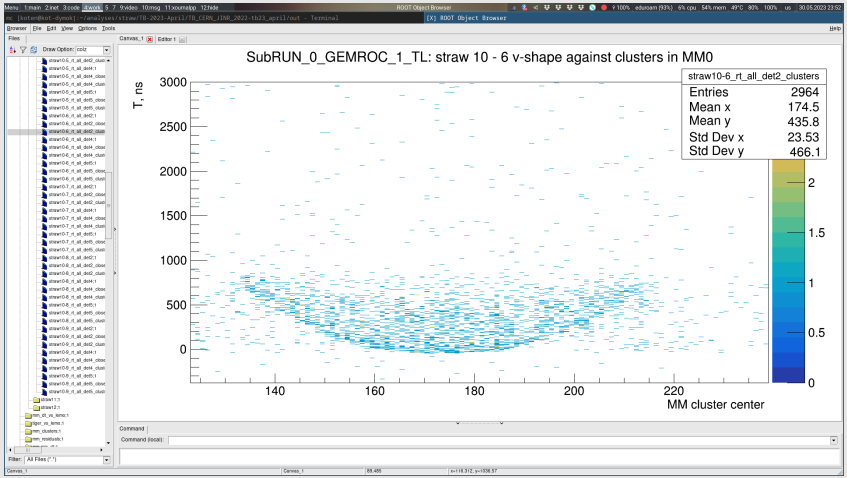
Straw 5



But that hits not corellated to scint!

Check for multiple sraw hits from single muon

R(T) for all straw hits against single cluster in MM



It is not fully correct, but we do not see much additional hits in 2 and 3 drift times

#Delta T between scintillator hits (run 72)

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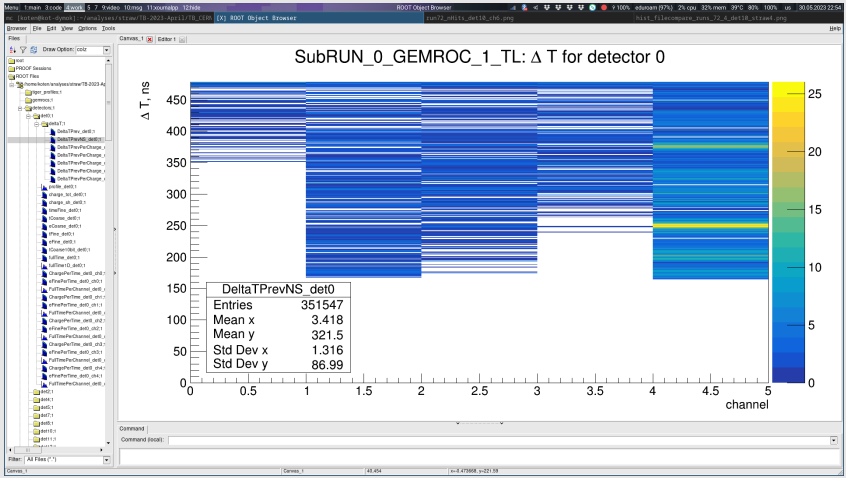


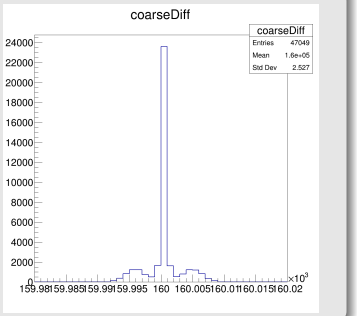
Summary

Summary

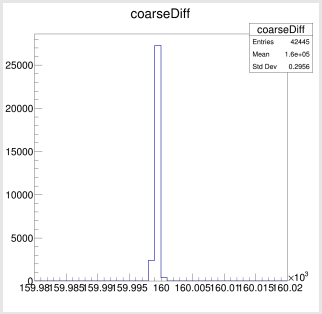
1. I do not see increasing of events with more then 1 hit in around scintillator
2. Noise rate during TB about 2 times larger then on dump for all alive 20mm straws
3. Straw 5: hits not corellated to scintillator and straw has lower rate during both, spill and mid-spill time
4. Seems, "bad RT" during TB on 20mm straws not caused additional self-ionisation
5. (just curios) About Scint 4: what can cause that 125ns structure in distribution of time between hits?

1kHz Pulser to TIGER time comparison

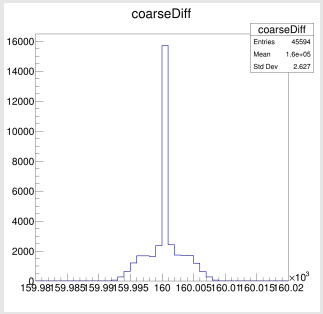
External clock, 50 Ohm (60s)



Internal clock (60s)

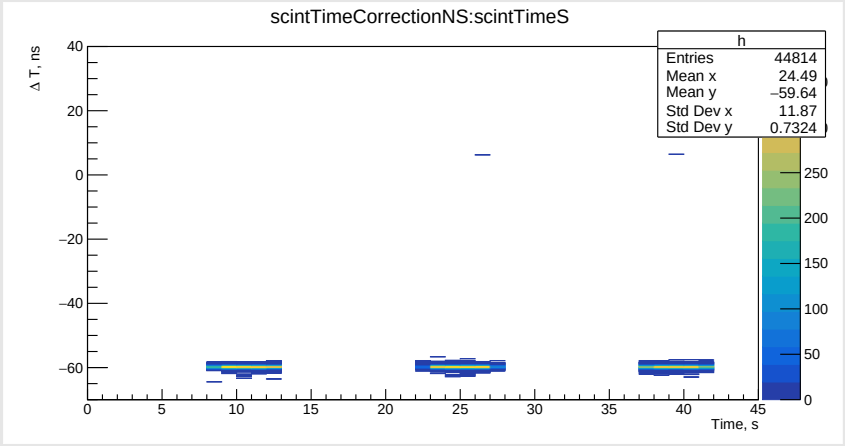


External clock, 100 Ohm (60s)



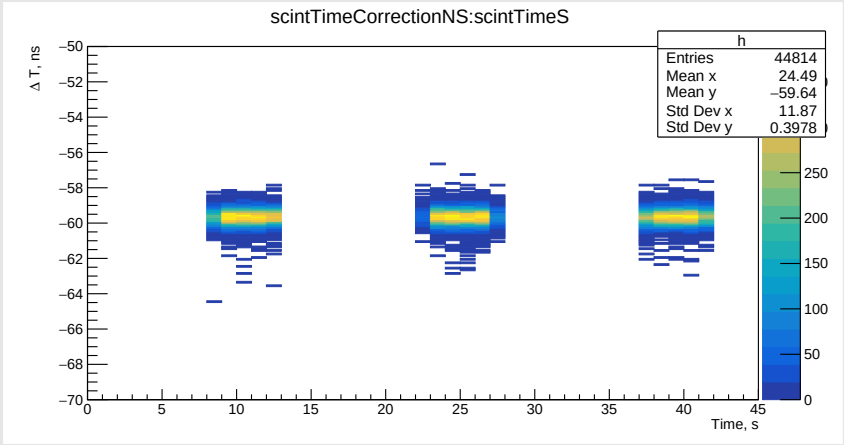
Coincedence stability

$T_{coinc} - T_{scint}^{mean}$



Coincedence stability

$T_{coinc} - T_{scint}^{mean}$



Coincedence stability (1D)

T_{coinc} - T_{scint} mean