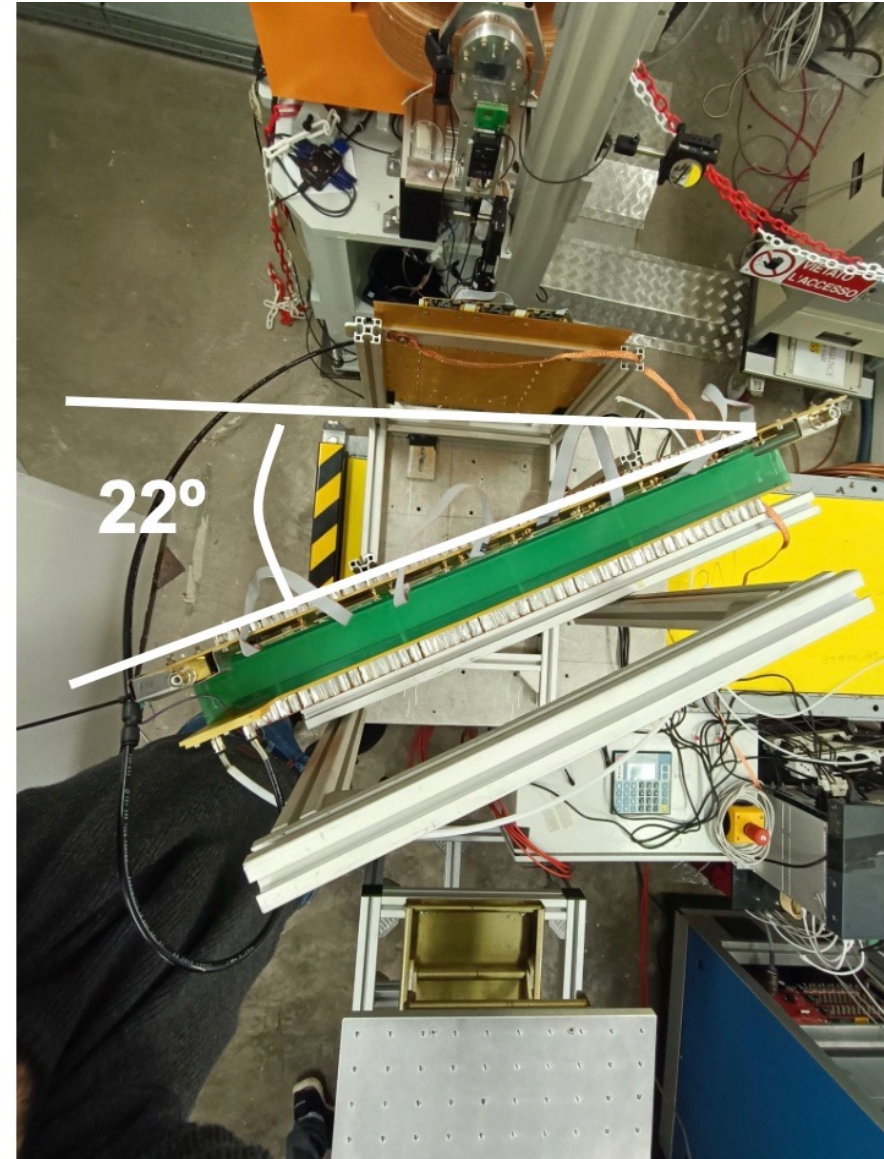
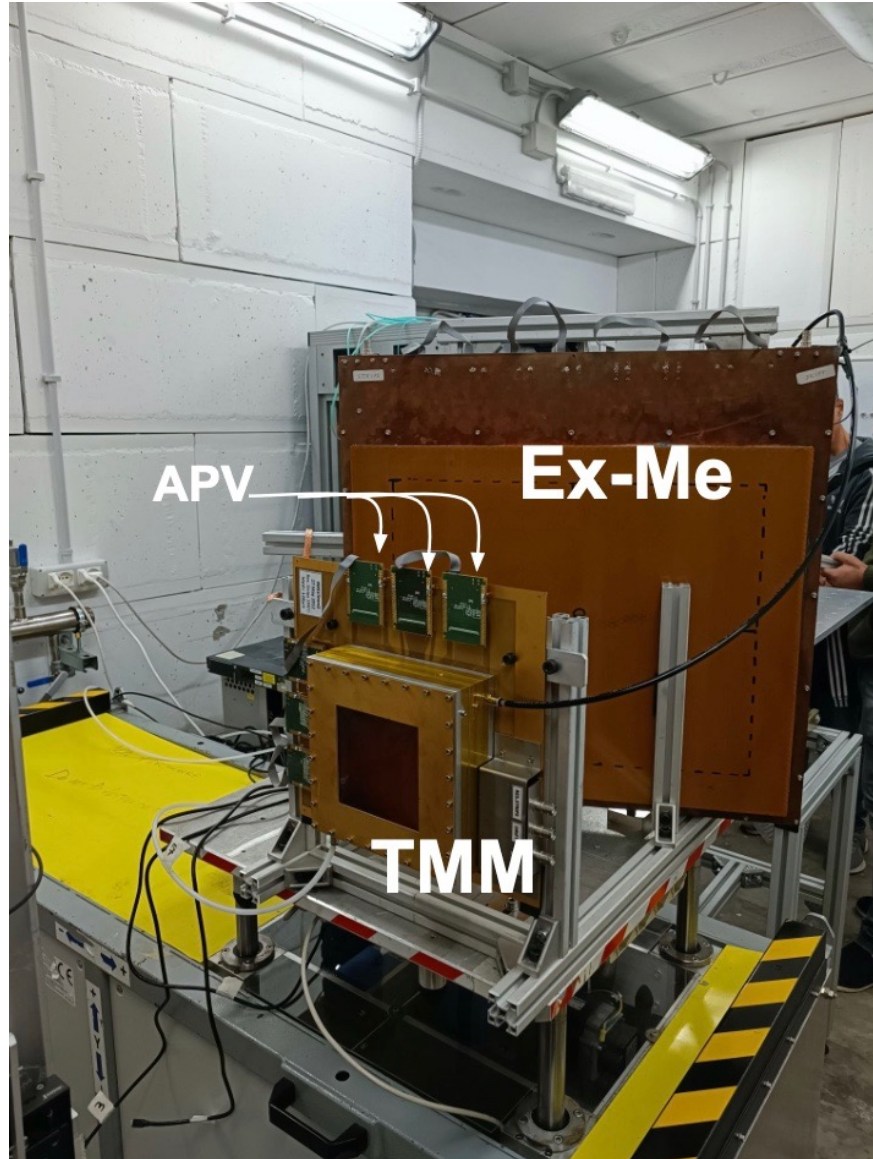
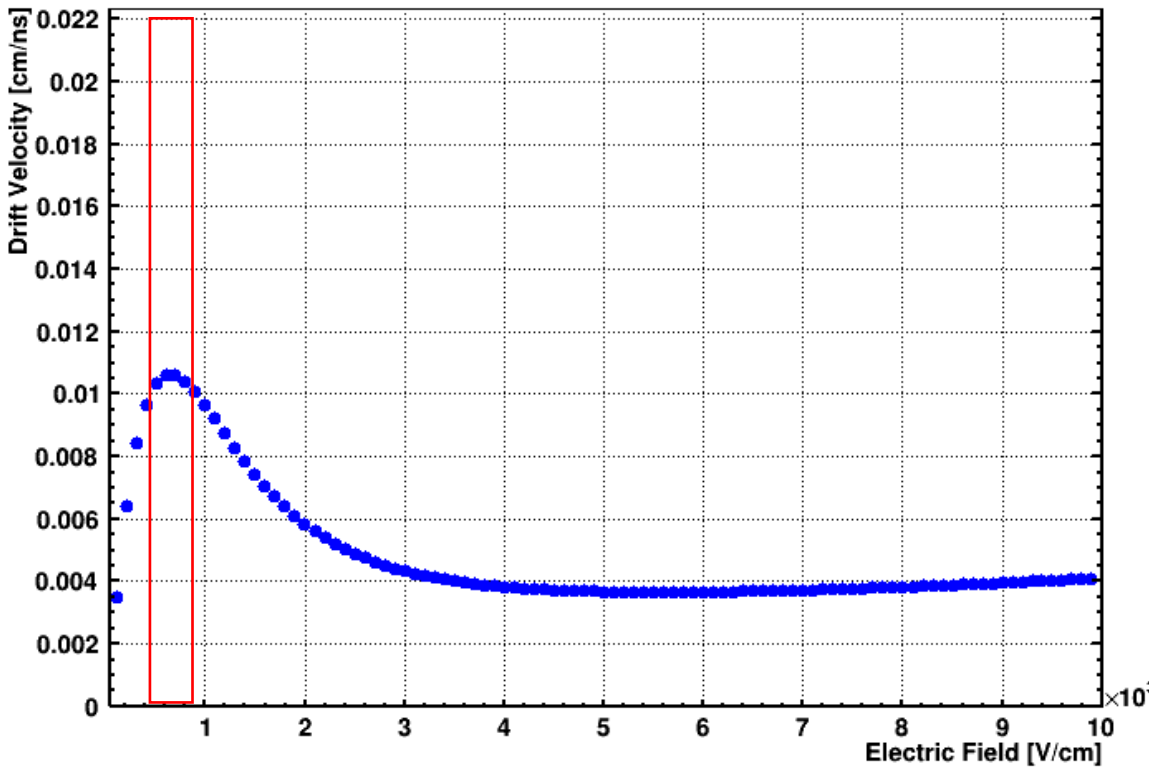


Experimental setup at LNF



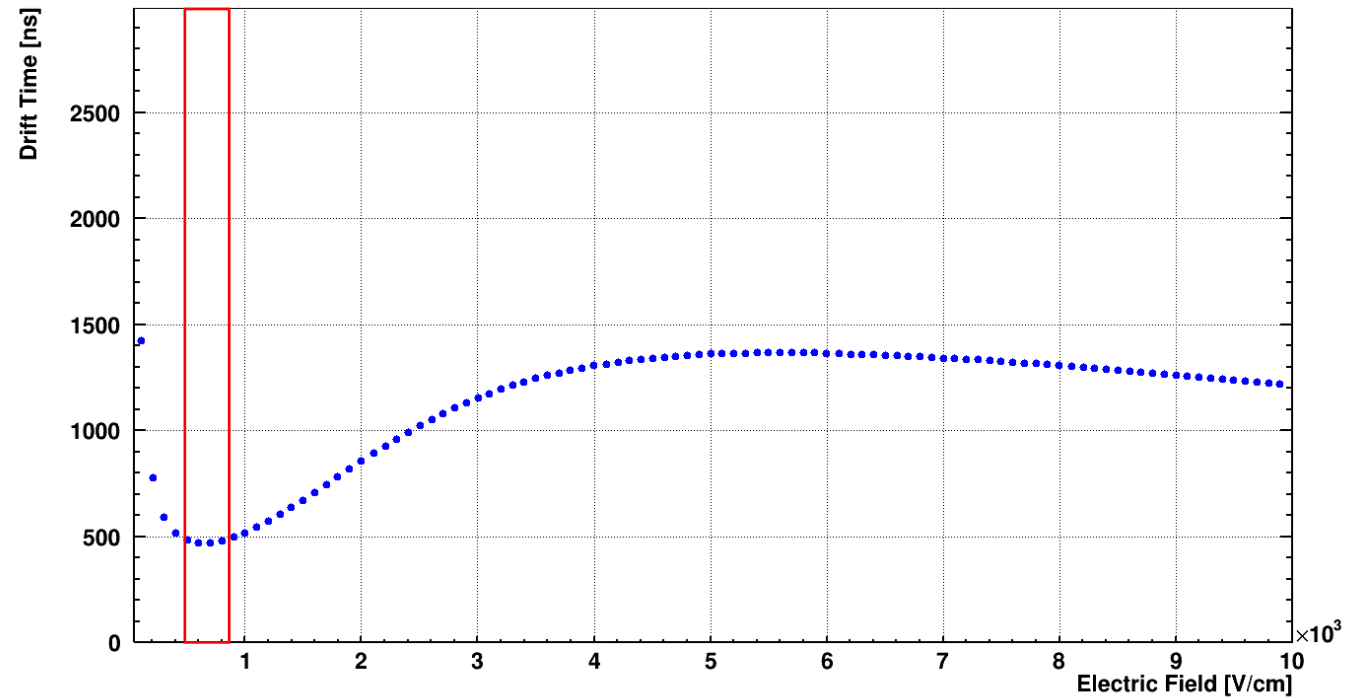
Gas mixture: Ar/CF4/iC4H10 (88/10/2)

Simulated Drift Velocity for Ar:CF4:iC4H10



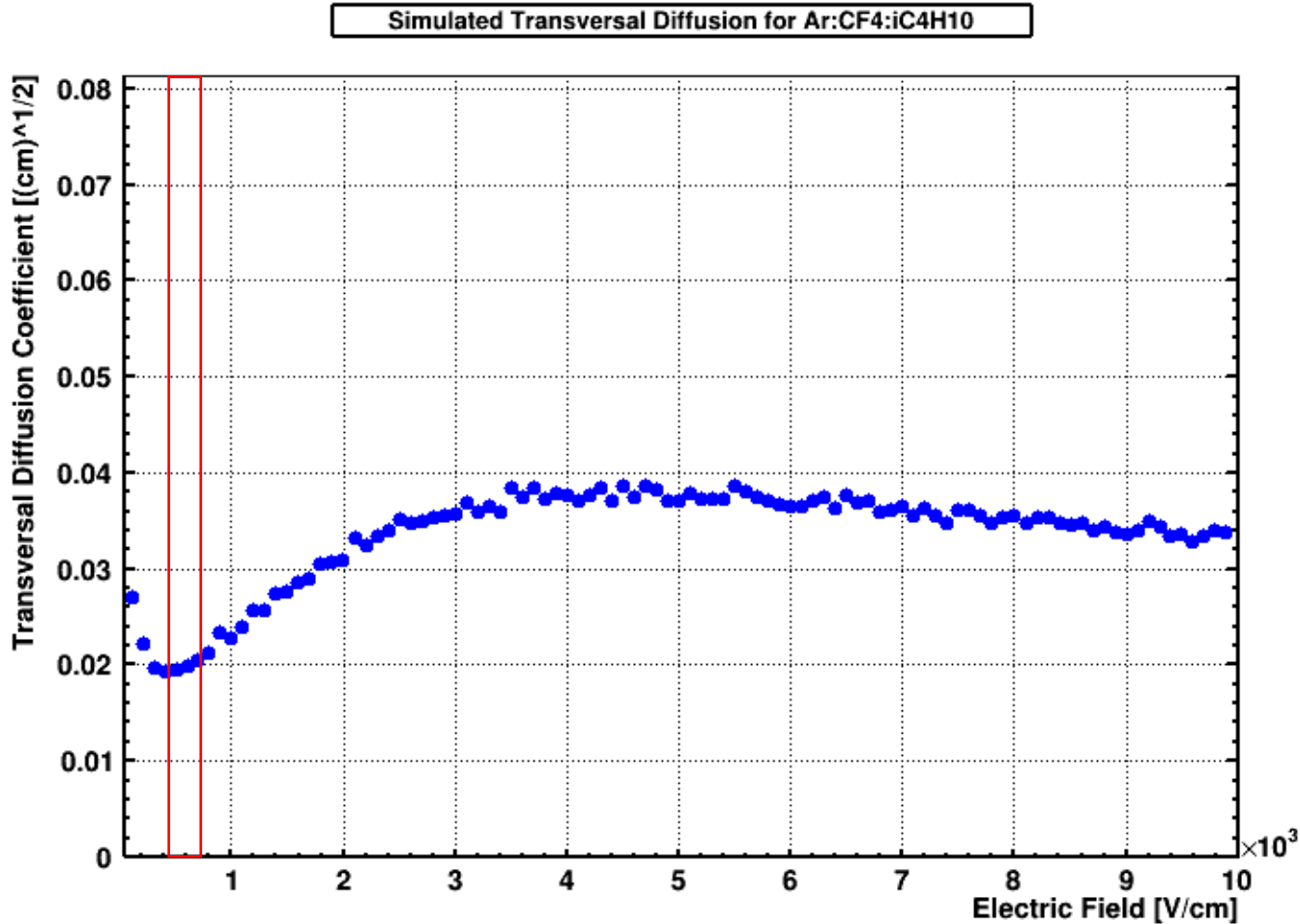
Drawn at: 2024-04-29 10:19:46

Simulated Drift Time for Ar:CF4:iC4H10



Drawn at: 2024-04-29 13:59:44

Simulated Transversal Diffusion

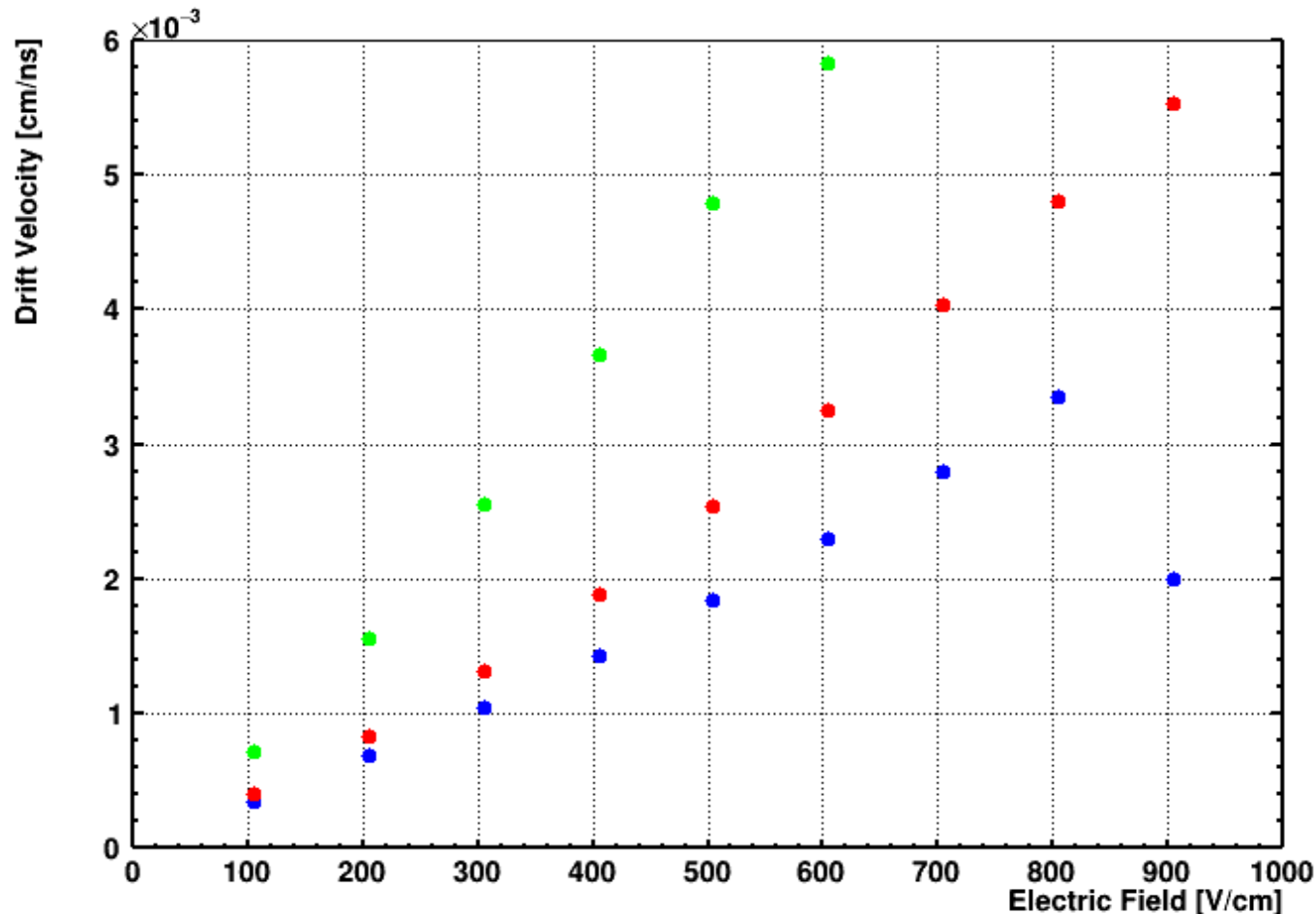


Expected number of strips per event:

TMM: ~ 12 strips

Ex-Me (tilted by 22°): ~ 50 strips

Simulation: Consideration of air humidity



H2O percentage in the gas:

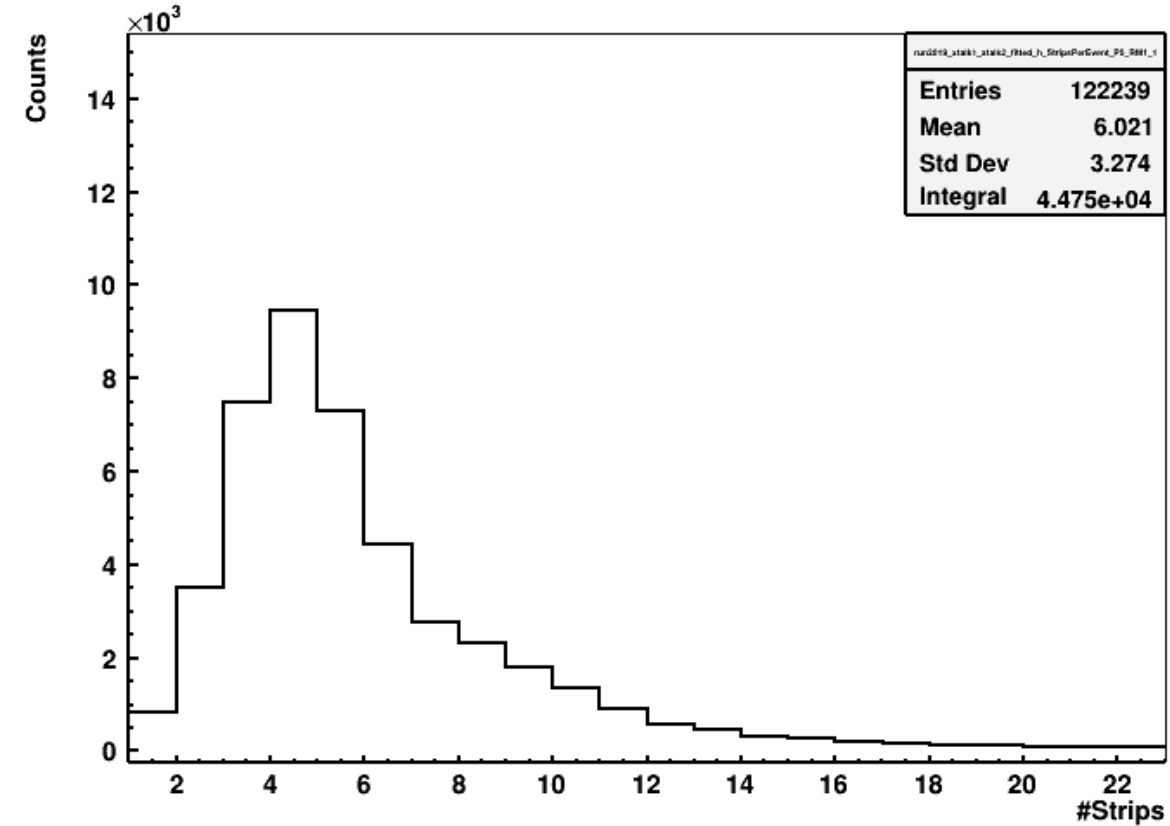
1% (5000 ppm)

2% (1000 ppm)

5% (25000 ppm)

Strips per event (not yet as expected)

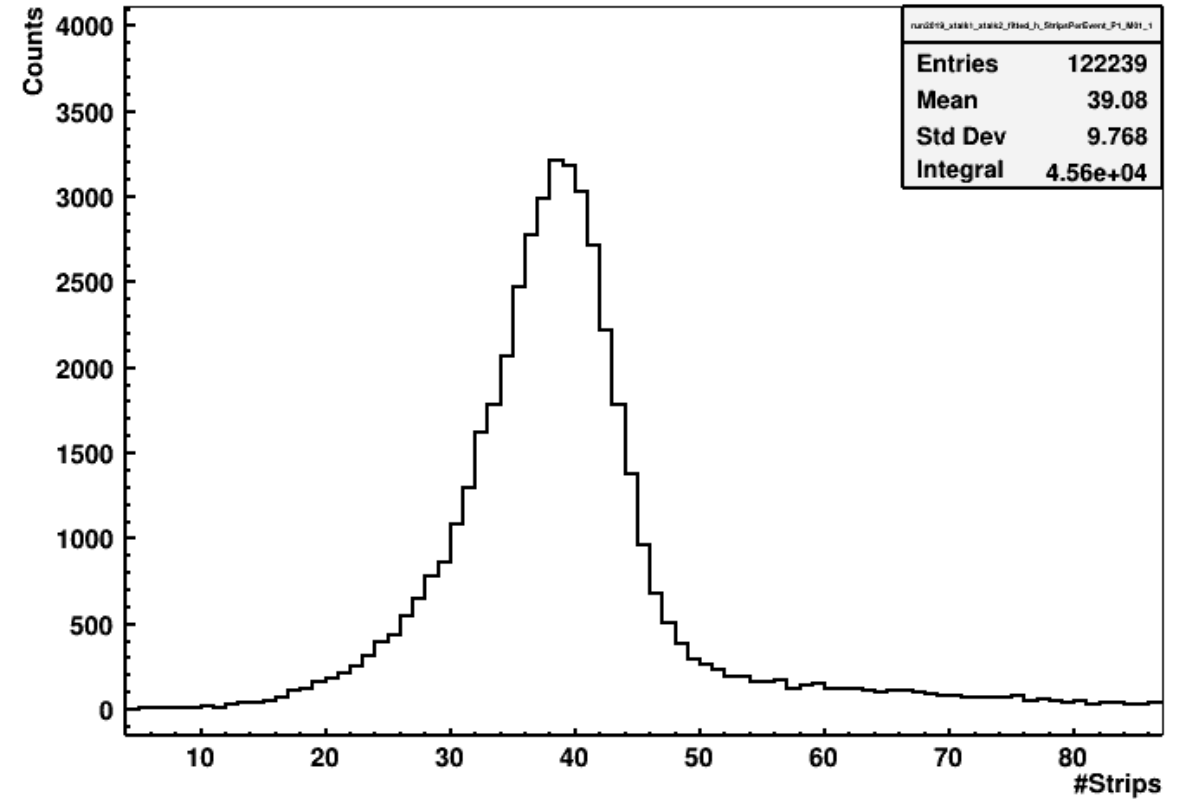
h_StripsPerEvent_P0_RM1



Drawn at: 2024-05-16 13:57:26

TMM

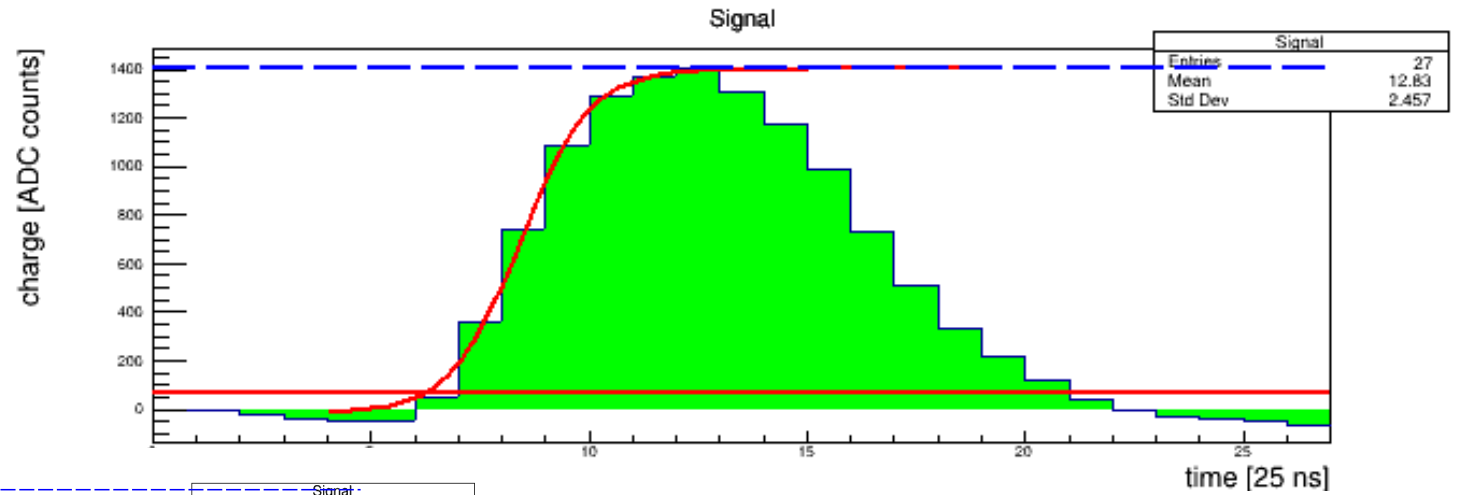
h_StripsPerEvent_P1_M01



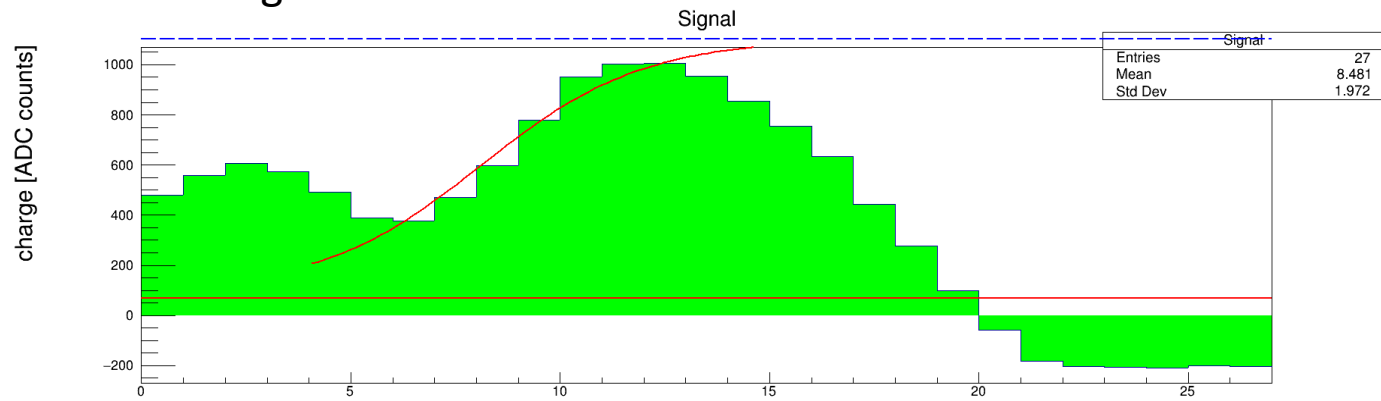
Drawn at: 2024-05-16 13:53:53

Ex-Me

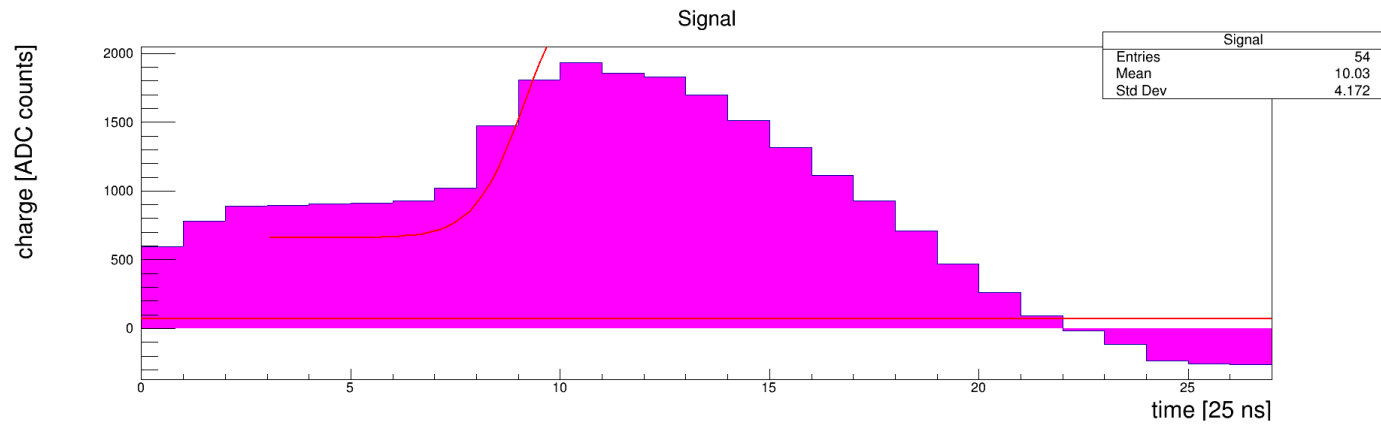
Fitting Process



Bad Signals:



Overlapping Signal



Signal with plateau