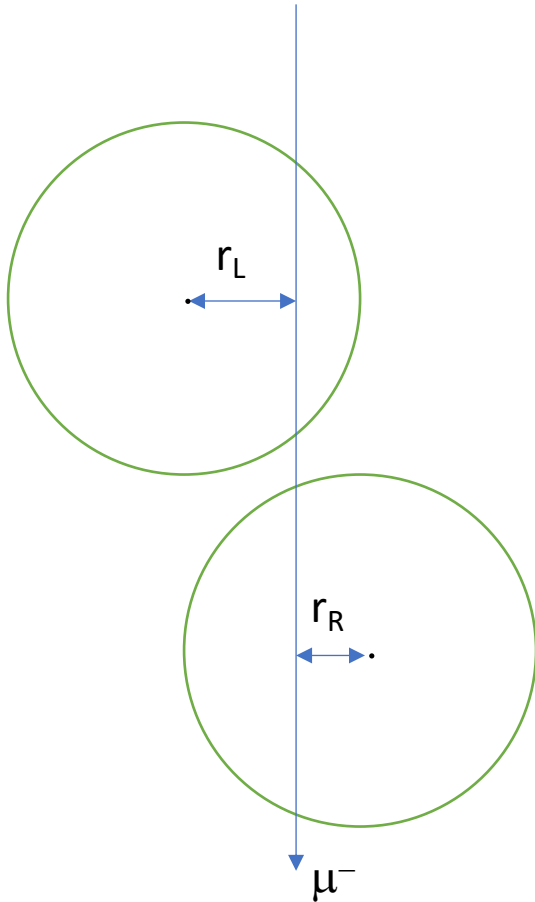


Straw team

Uniform muon distribution studies for the test beam case

21/03/2023

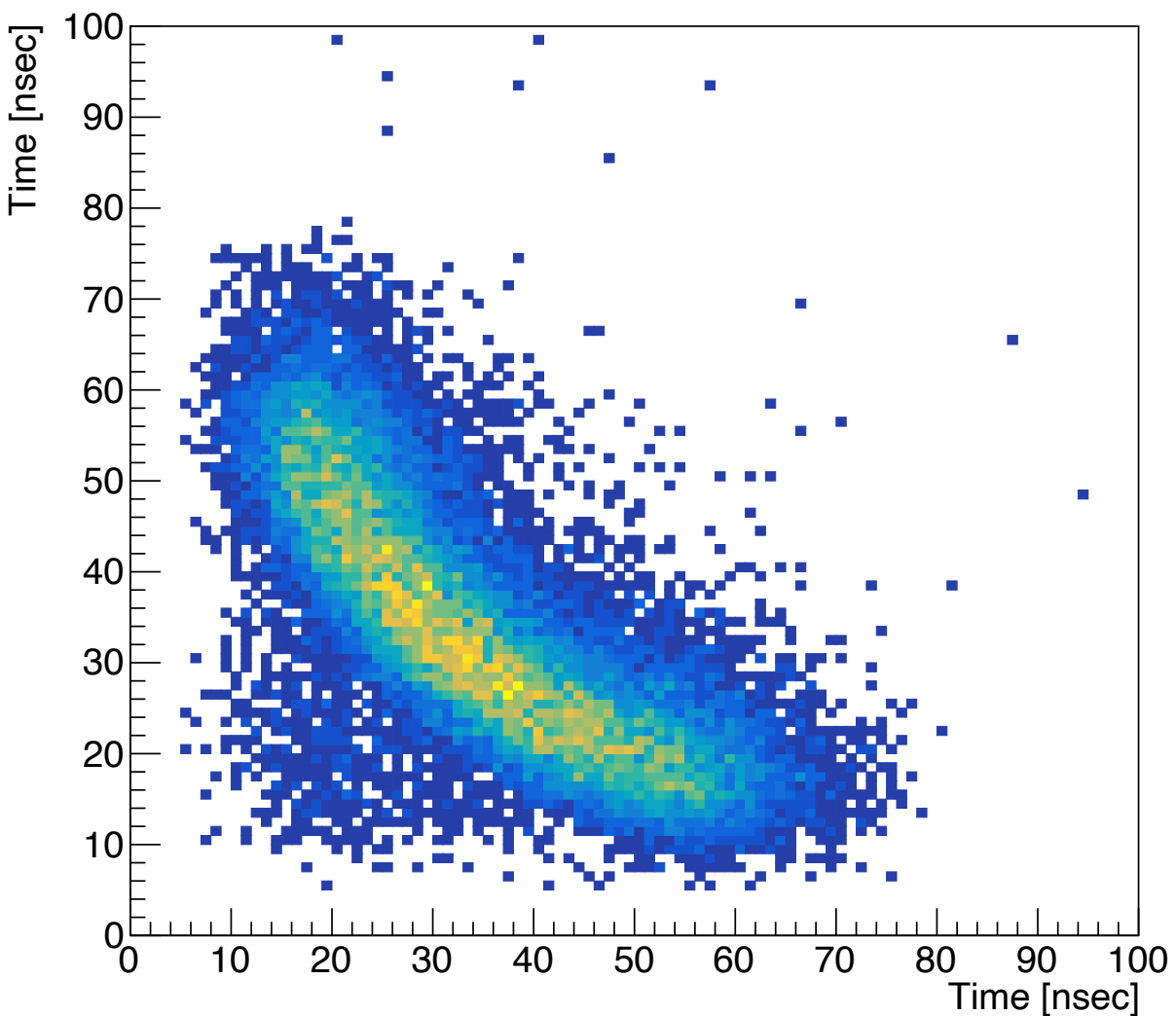
Straw:



- $R_{\text{tube}} = 3 \text{ mm}$
 - $A_d = 30 \text{ micron}$
 - $V_a = 1750 \text{ V}$
 - $\text{Penn} = 54$
 - $\text{Track}_{\text{count}} = 50 \text{ k}$
 - $\text{Ar/CO}_2 : 70/30$
 - $\text{Gas gain} = 90 \text{ k (exp)}$
 - $1 \text{ atm} / 20^\circ \text{ C} / E_\mu = 1 \text{ GeV}$
 - No attachment
-
- $R_{\text{tube}} - r_R - \text{eps} < r_L < R_{\text{tube}} - r_R + \text{eps}$
 - $\text{eps} = 25 \text{ }\mu\text{m}$

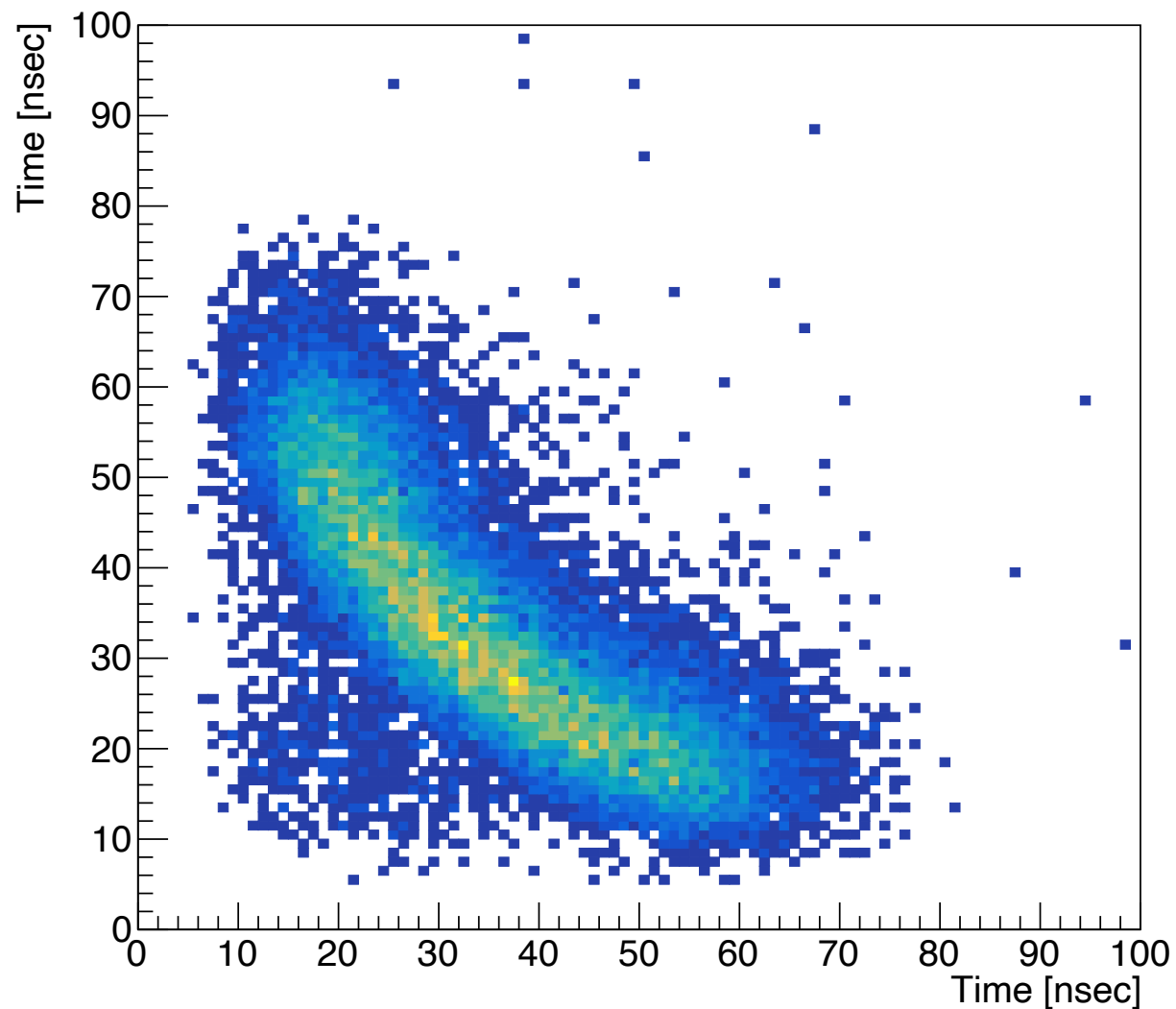
Entries 24238
eps = 25 μm

Fill Banana Plot (eps = 25 micron)

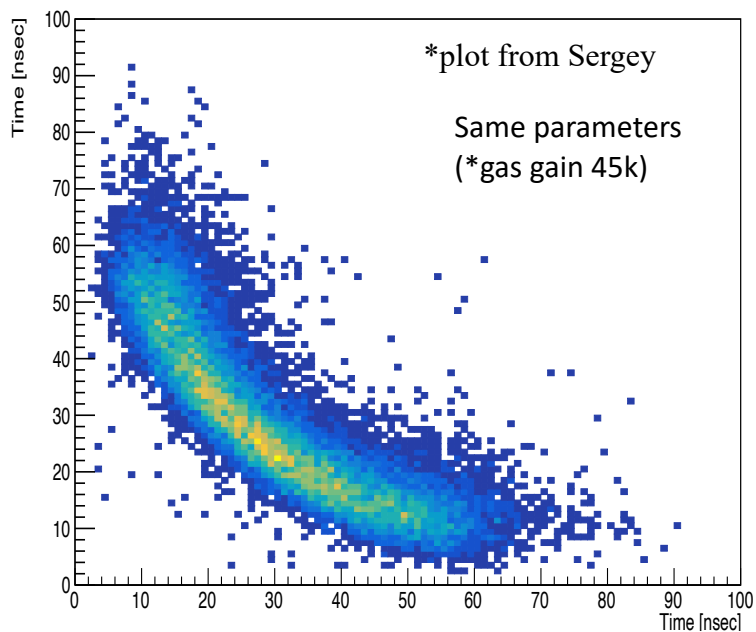


Entries 22805
eps = 5 μm

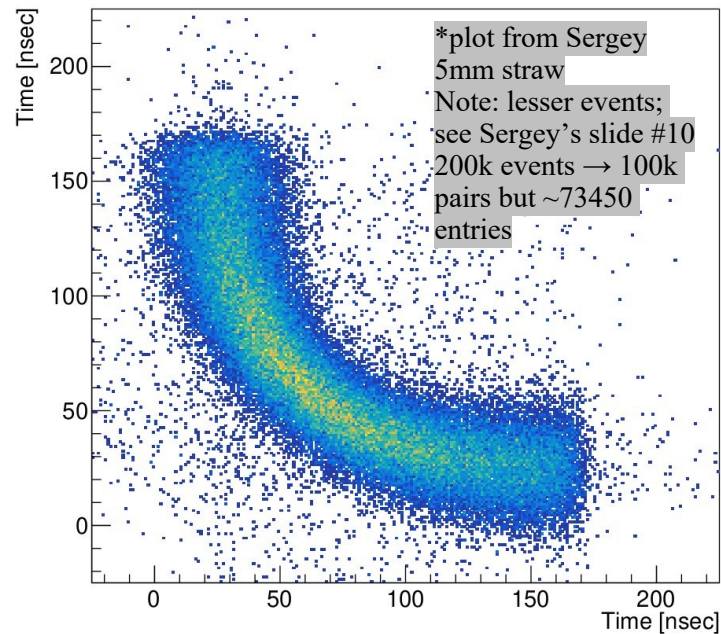
Fill Banana Plot (eps = 5 micron)



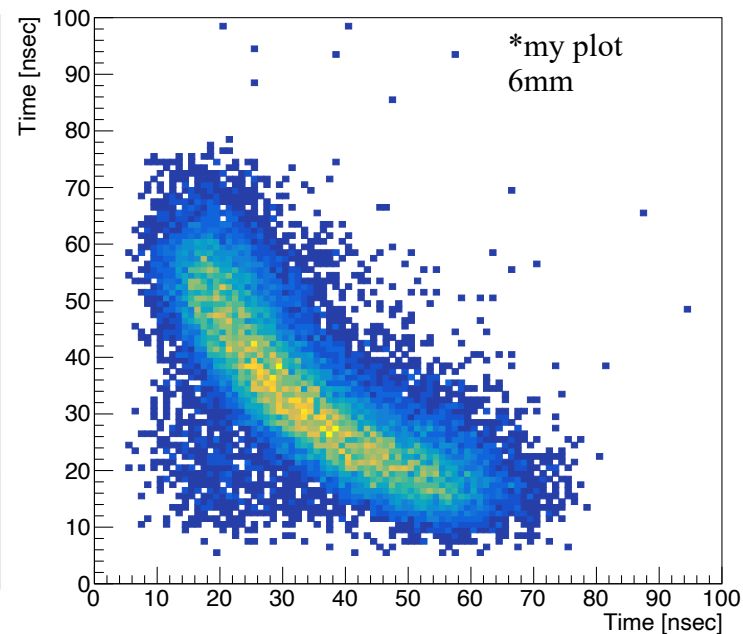
Min stat banana (honest)



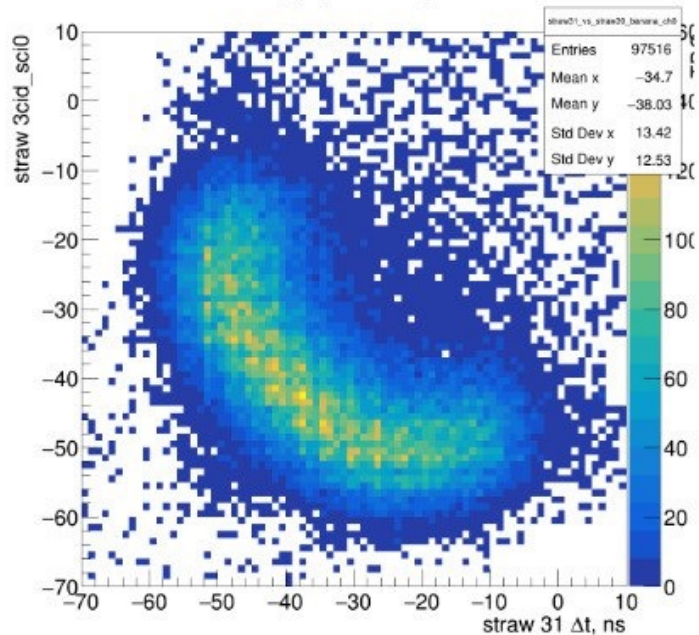
Fill Banana Plot From Vector's Data



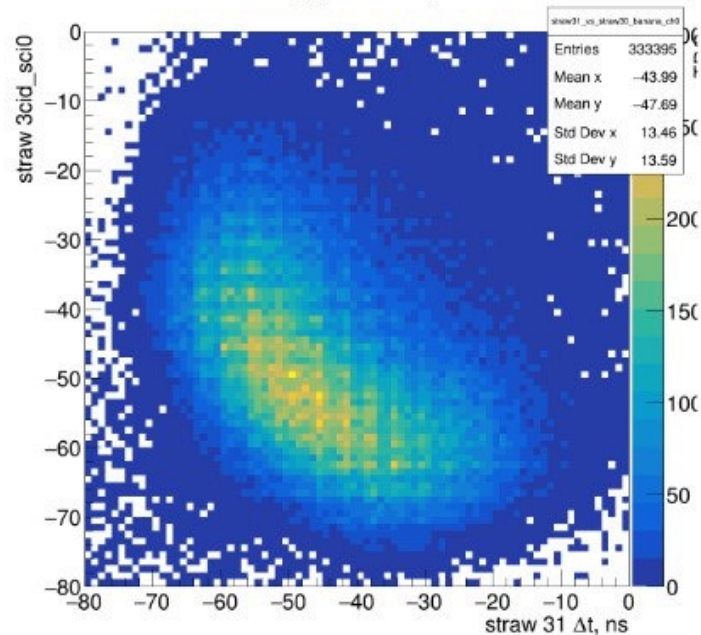
Fill Banana Plot (eps = 25 micron)



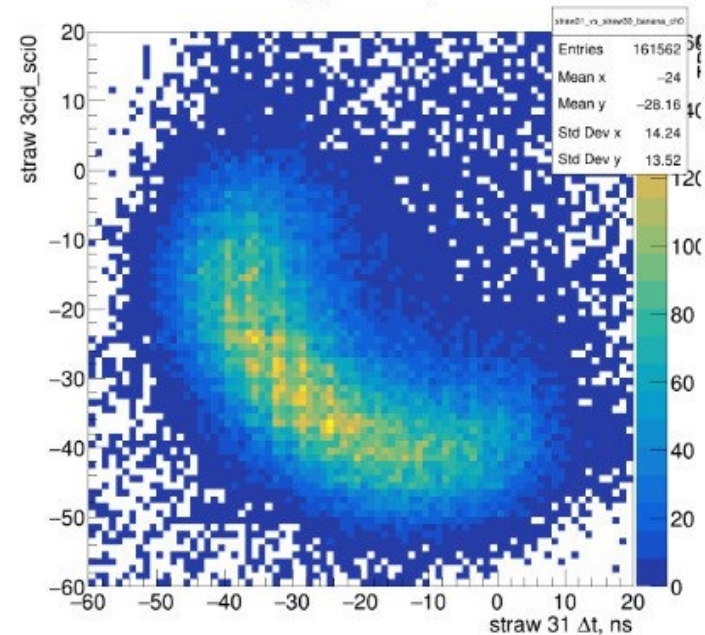
Run 0007: t@t, 1750 V, 1.0 mV/fC



Run 0057: t@t, 1650 V, 1.0 mV/fC



Run 0027: t@t, 1600 V, 4.5 mV/fC



*3 plots
from Vitalii