

# simulation studies : time between threshold and peak

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10.01.24 simulation data set:

`Ar_70_co2_30_1750V_B0_1atm_dWire30mkm_dTube10mm_2mm_muon_test_garf_bin2000_*.sig.csv`

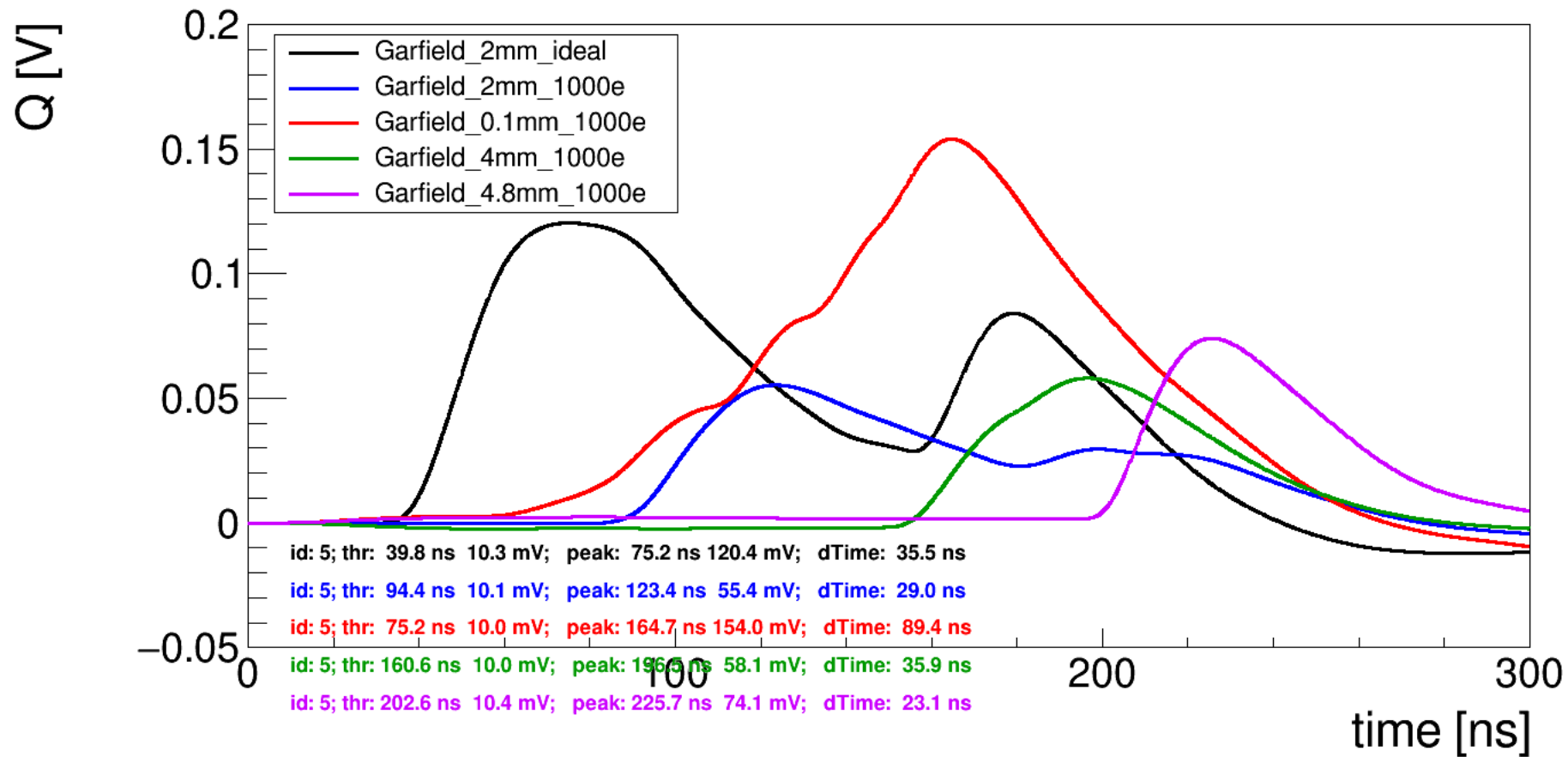
from [Sonya\\_Dosbol\\_2mm\\_Comparison.7z](#) (2k signals) no noise

15.01.24 simulation data set:

`Ar_70_co2_30_1750V_B0_1atm_?_?mm_bin2000_*.sig.csv` from [noField\\_SPD\\_1000e.7z](#) 1k per point, 1000e noise

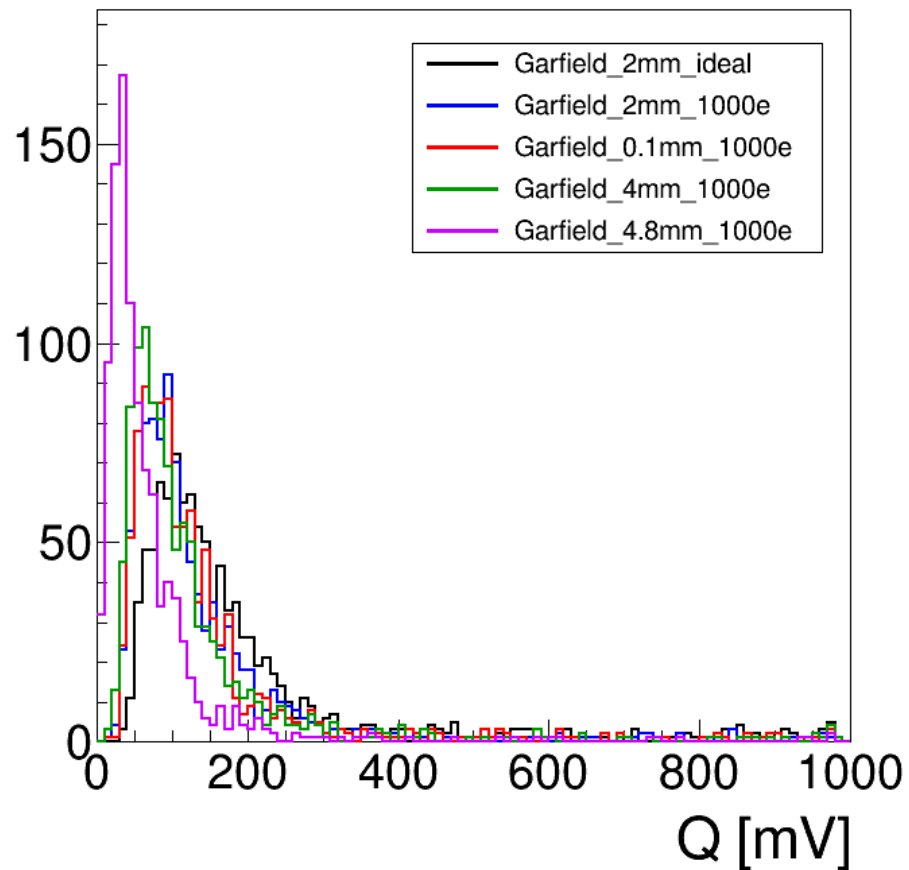
both diameter 1 cm, peaking time 25 ns, gain 3mV/fC

# signal sample

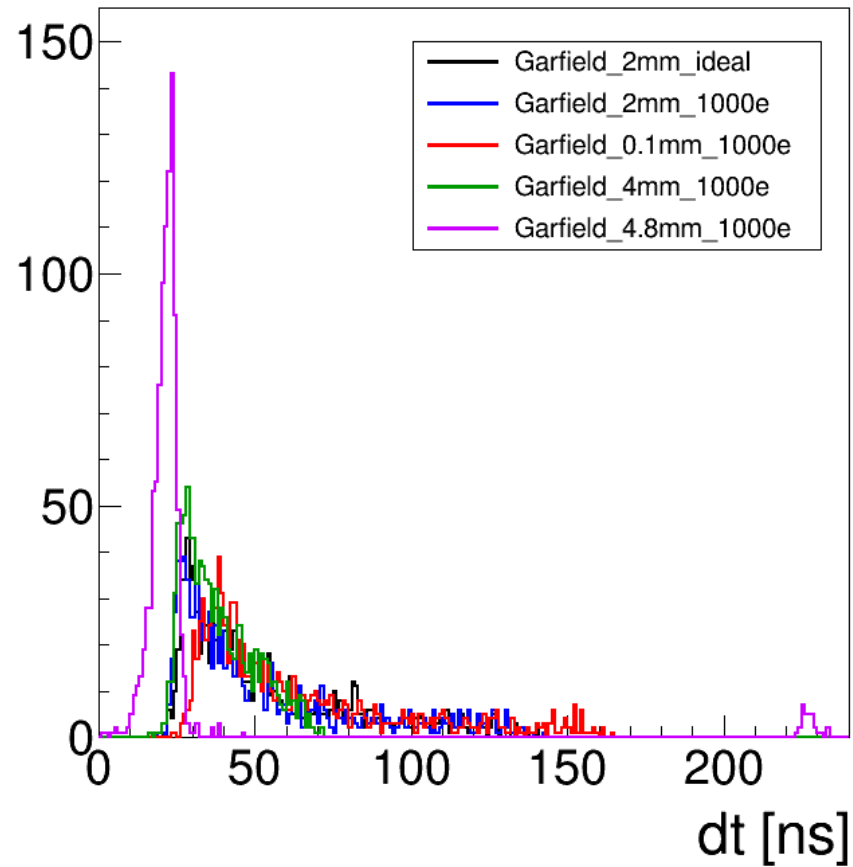


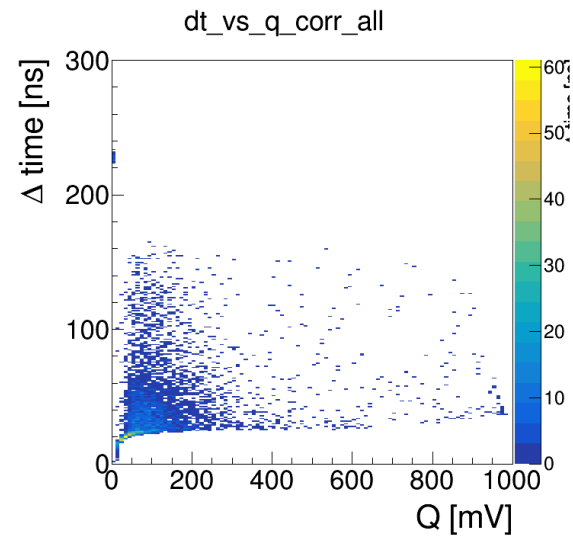
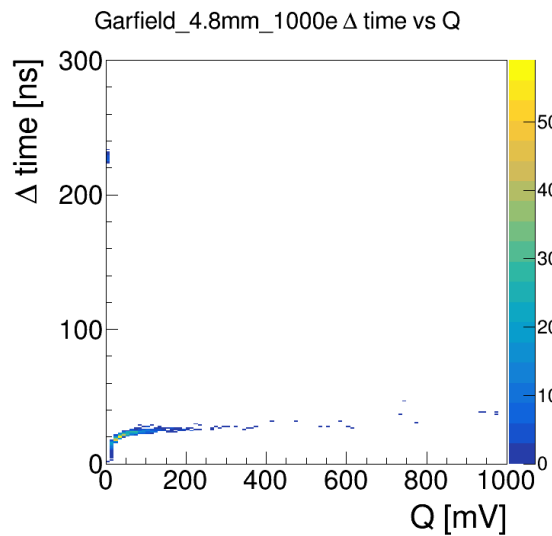
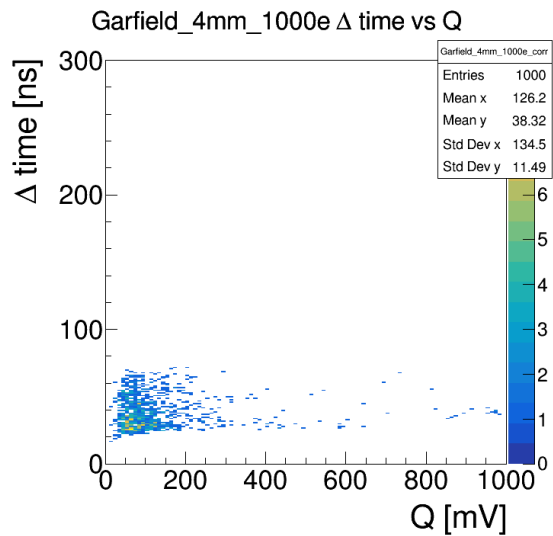
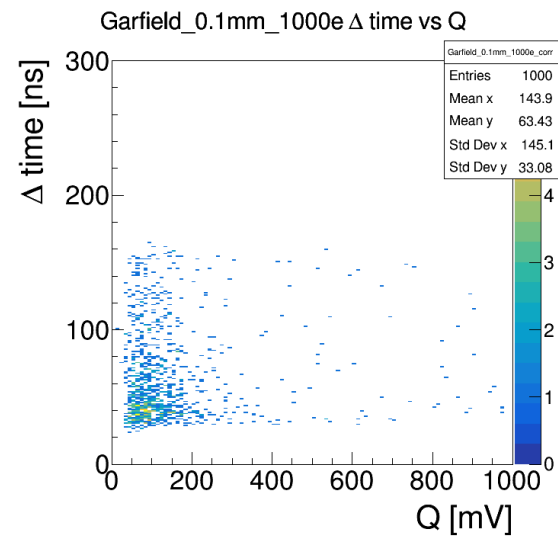
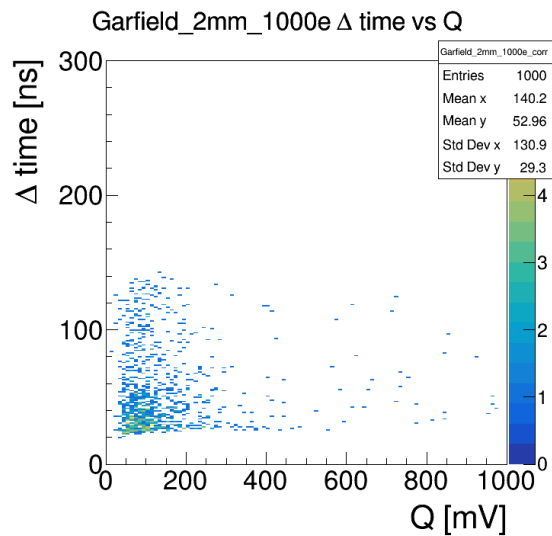
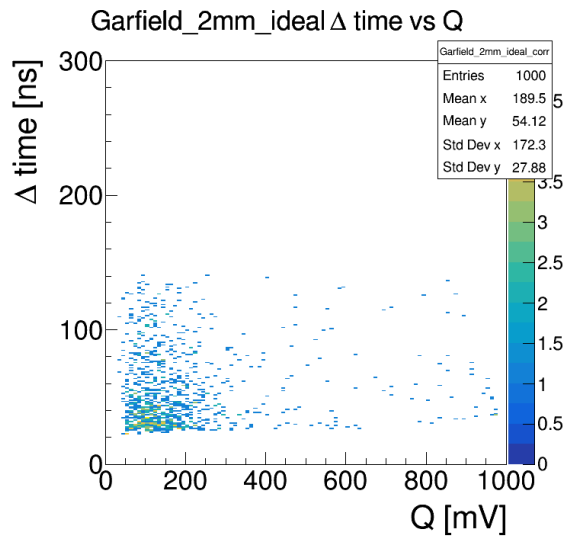
# 10 mV threshold

## signal charge (3 mV/fC)



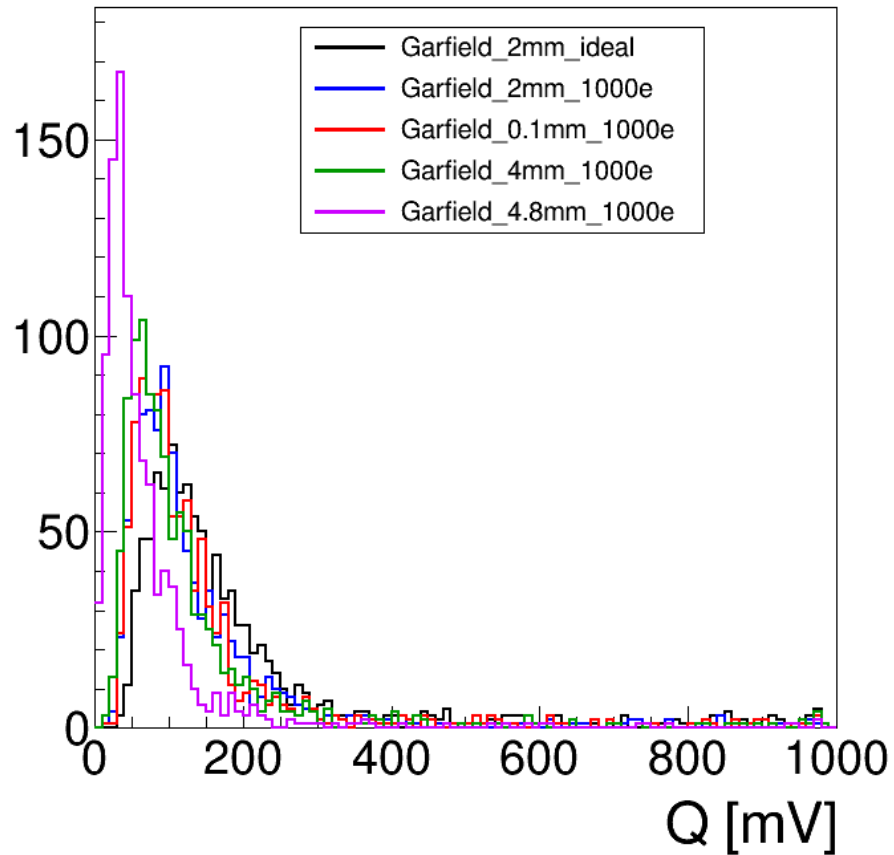
## signal dt





# 60 mV threshold

## signal charge (3 mV/fC)



## t<sub>peak</sub>-t<sub>resh</sub>

