

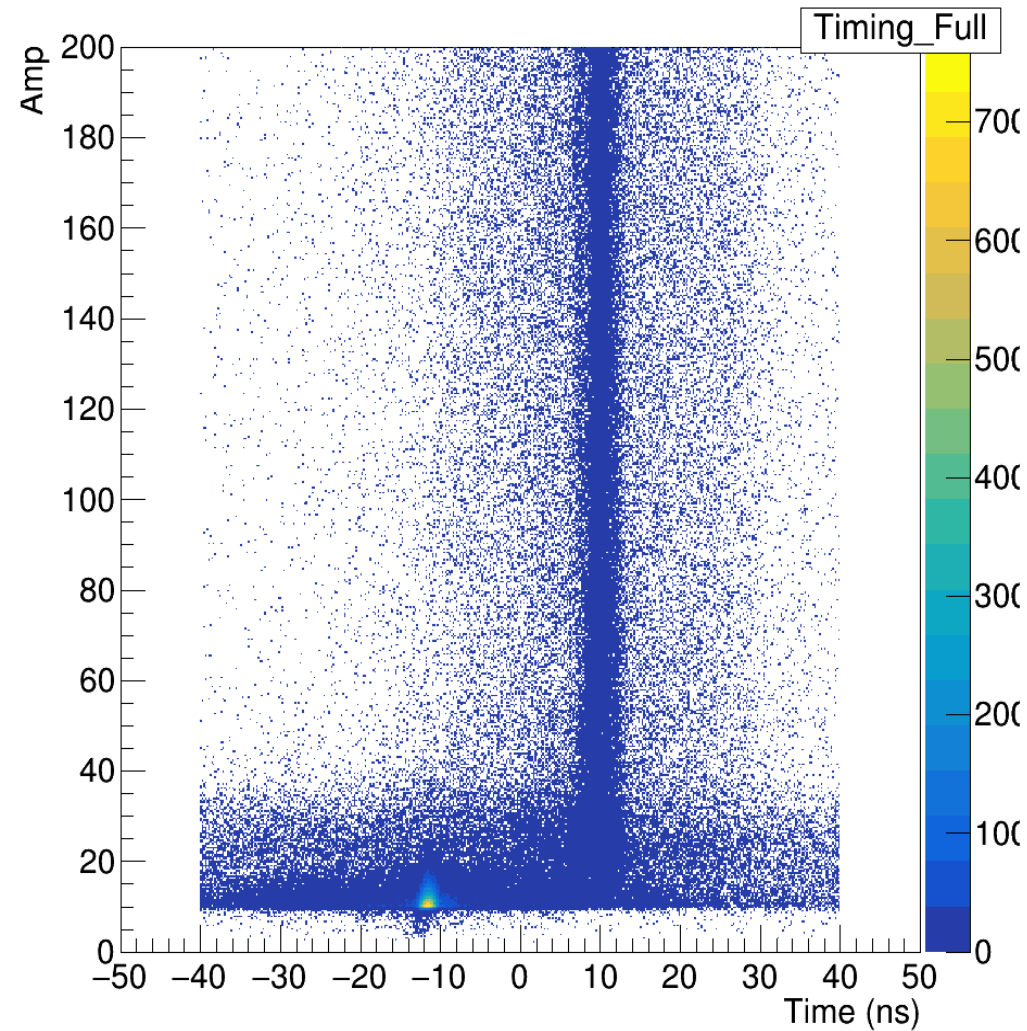
Update of Analysis (Calibration of Heavy
Gas Cherenkov Detector)
“SHMS”

Vijay Kumar (Regina group)

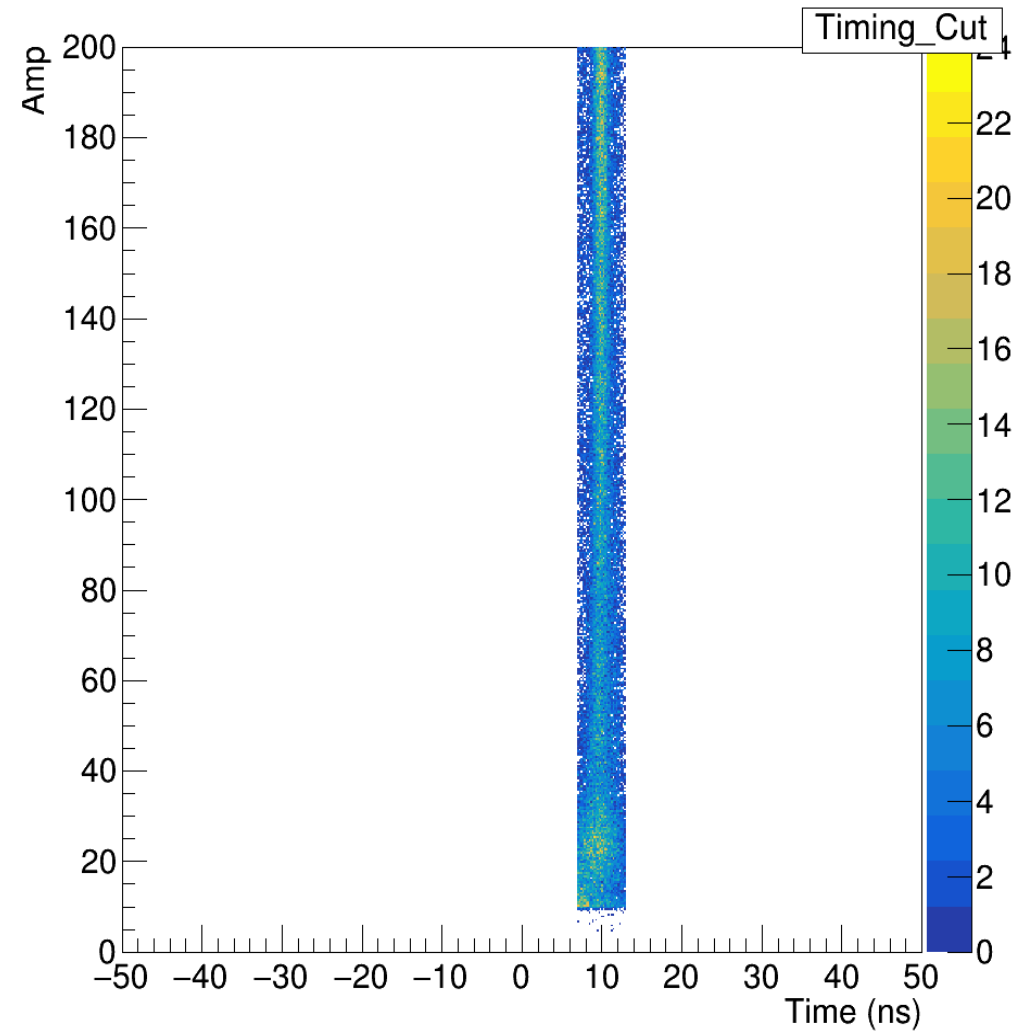
We're trying to understand the first peak in the timing information

Timing vs Amplitude

Full timing information for events

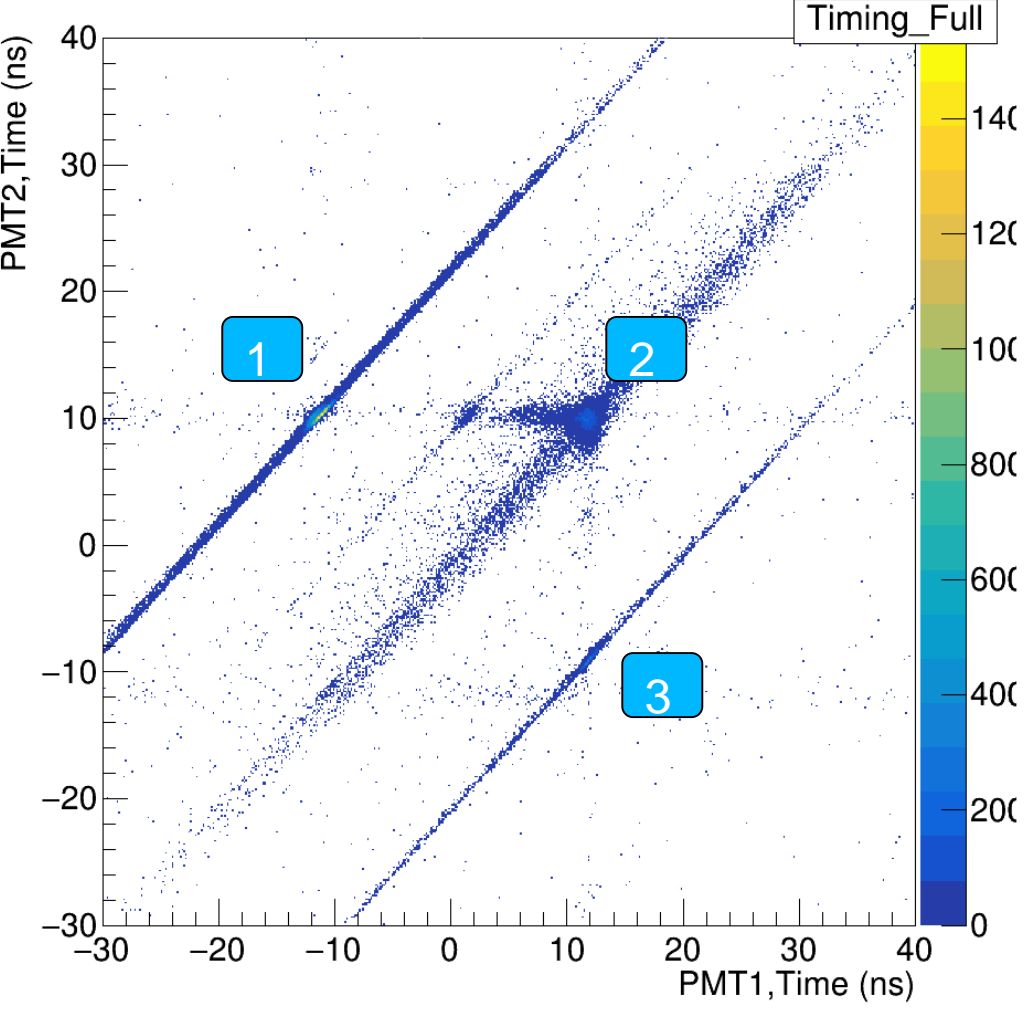


Timing cut used for 'good' hits

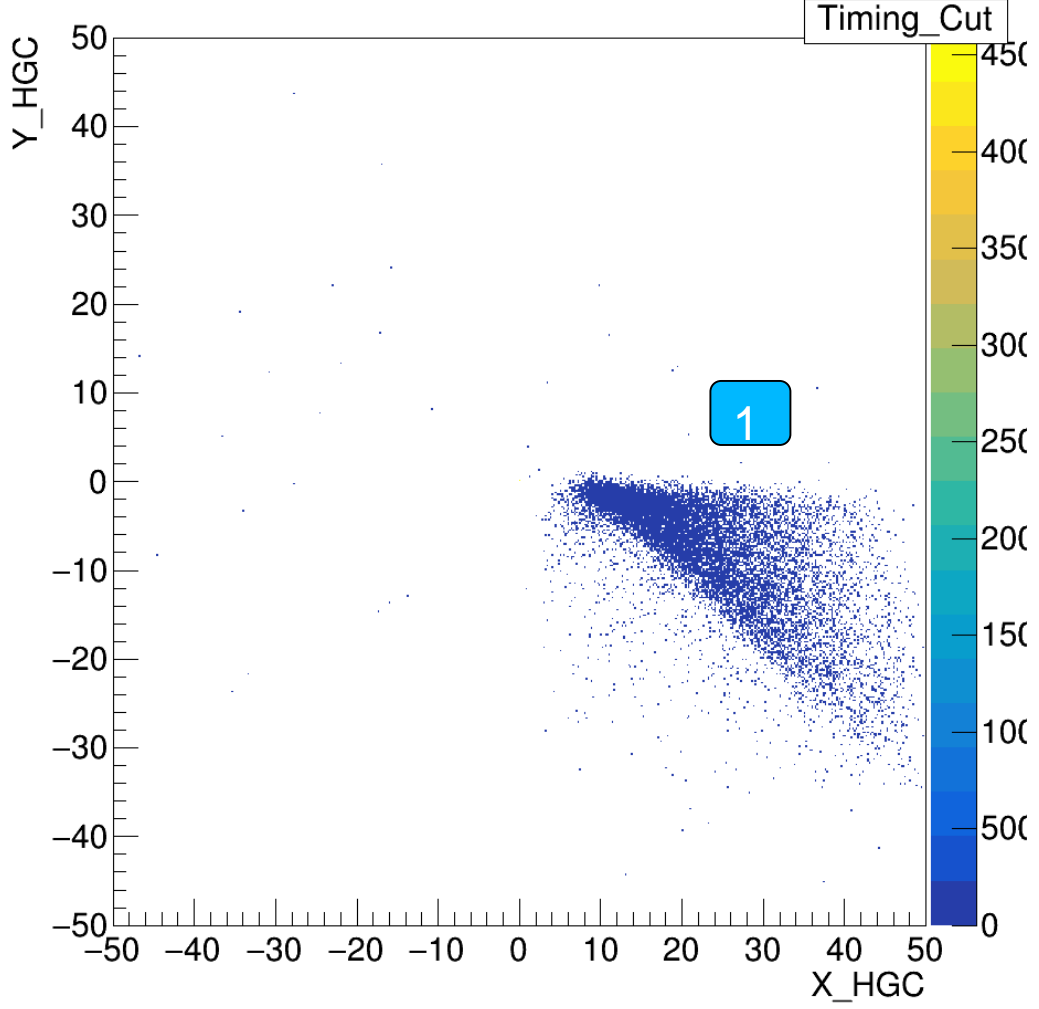


Timing information b/w PMT1 & PMT2 and track position

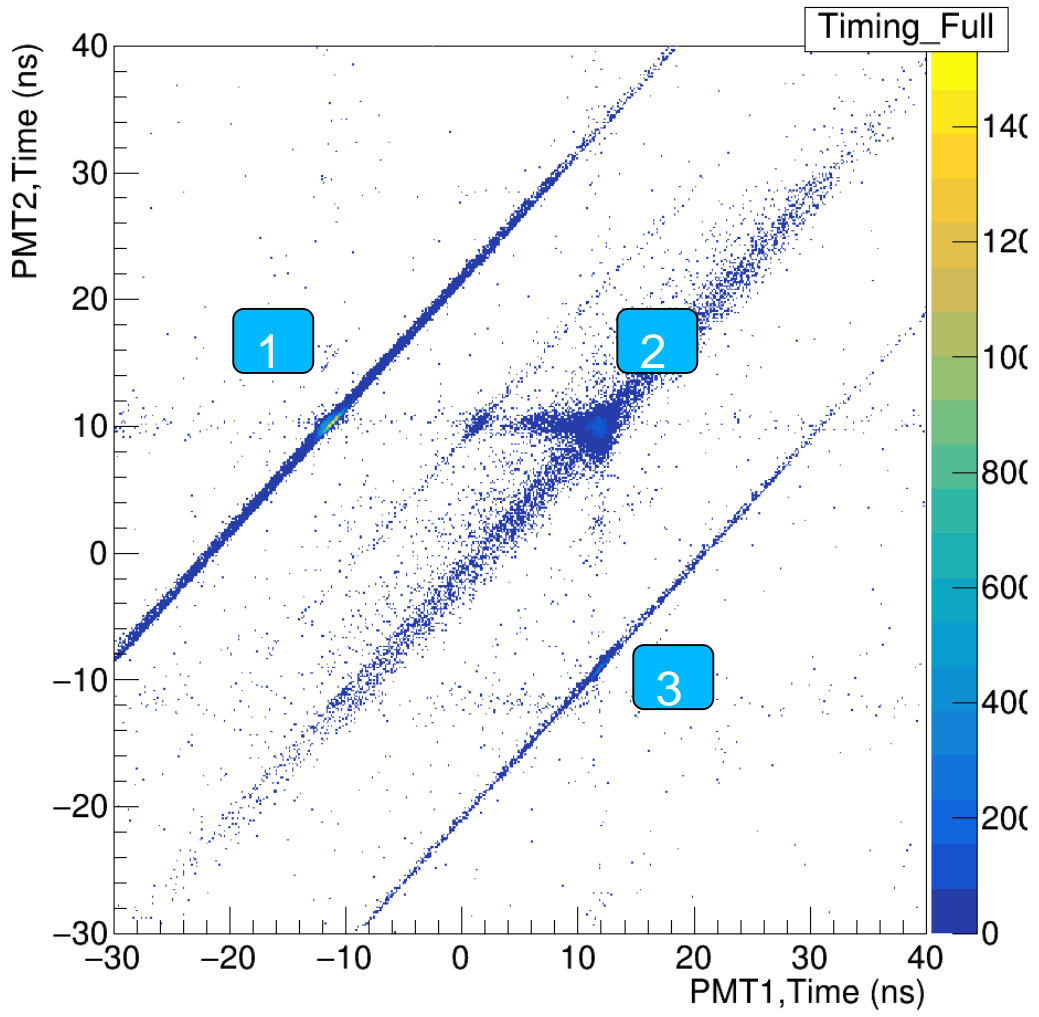
Full timing information for events



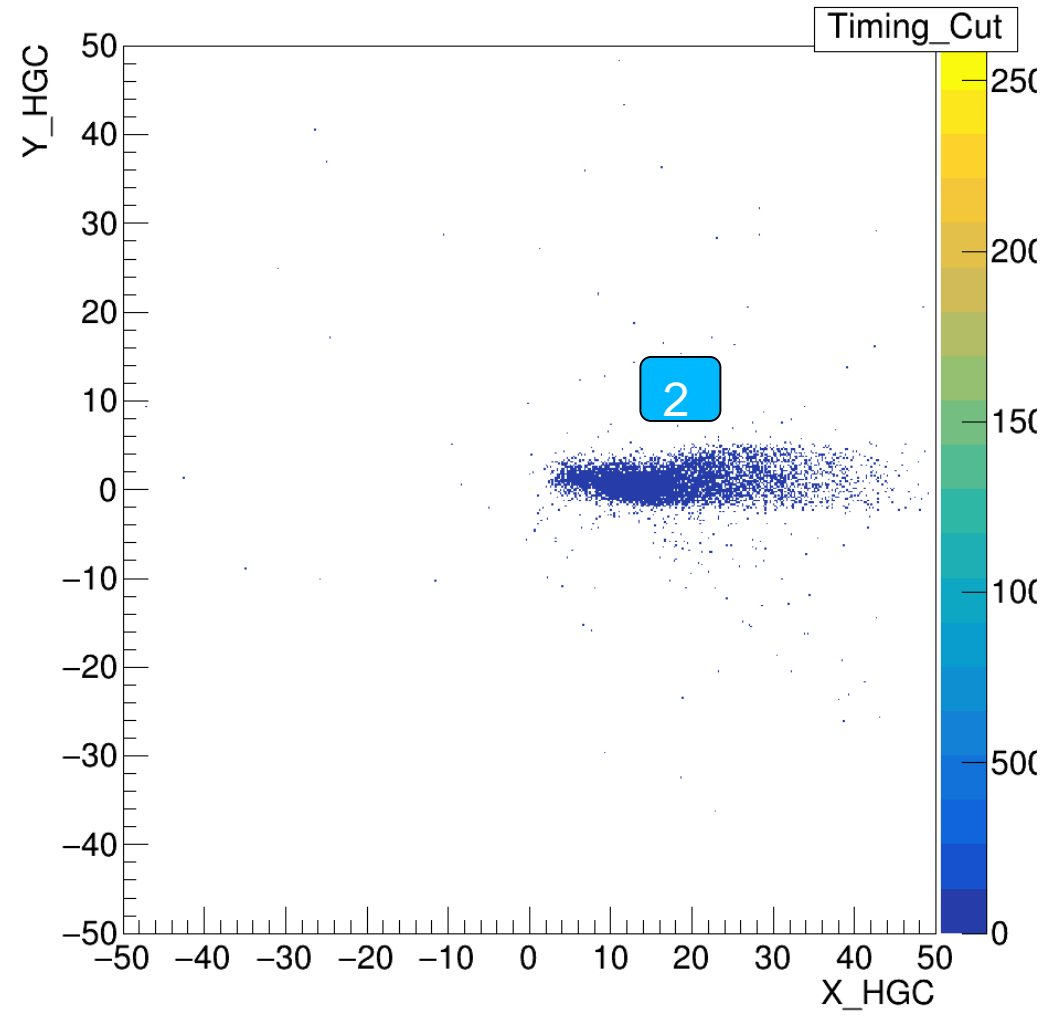
Timing cut used for good hits (PMT1, >-6||<-14, PMT2, >14||<6)



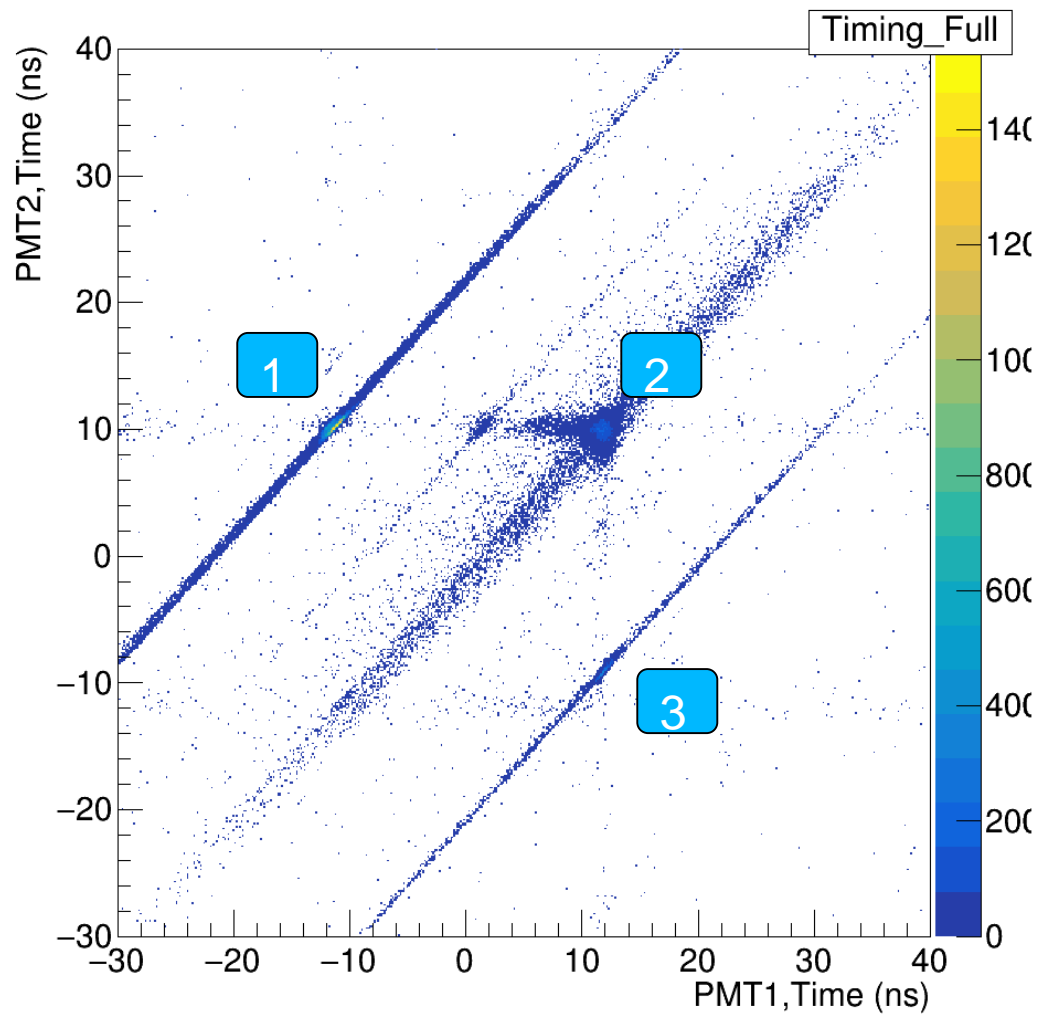
Full timing information for events



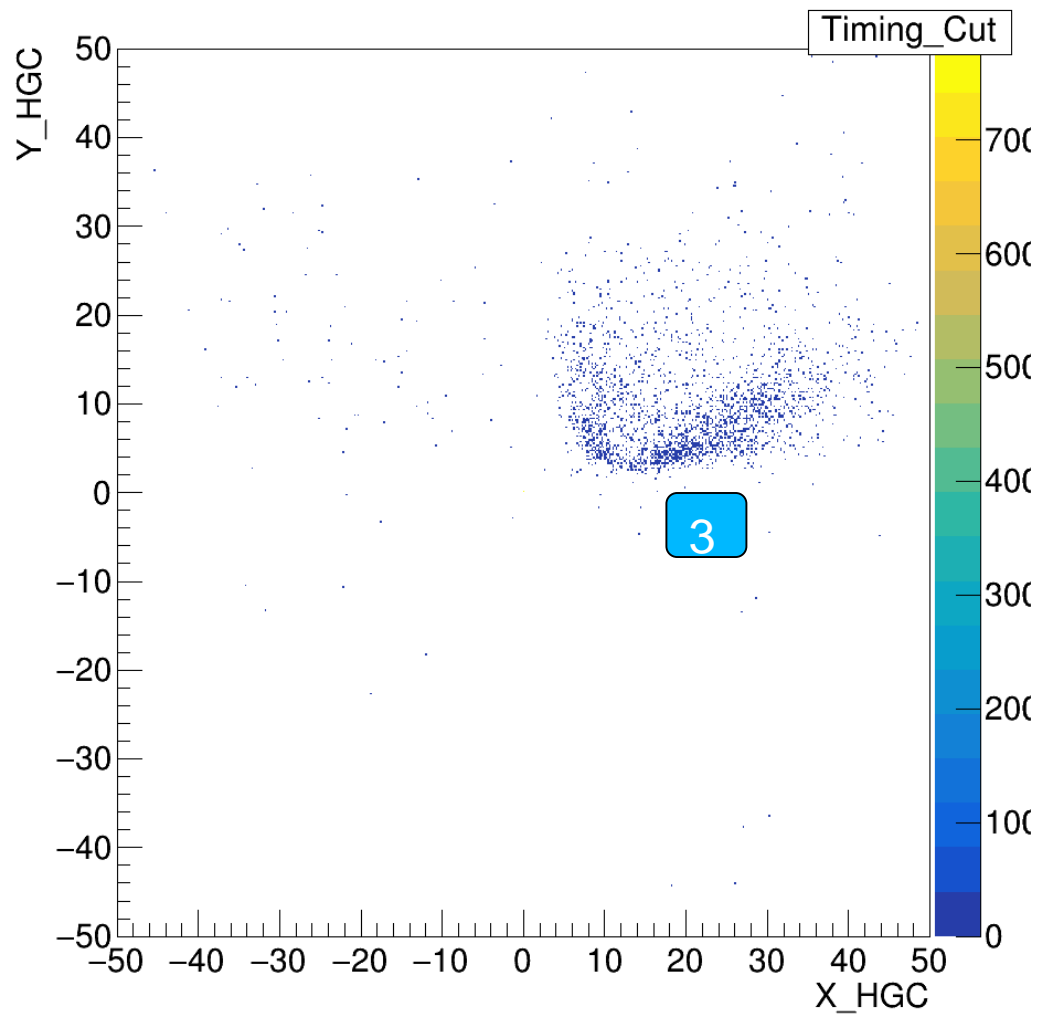
Timing cut used for good hits (PMT1, >14||<4, PMT2, >14||<6)



Full timing information for events

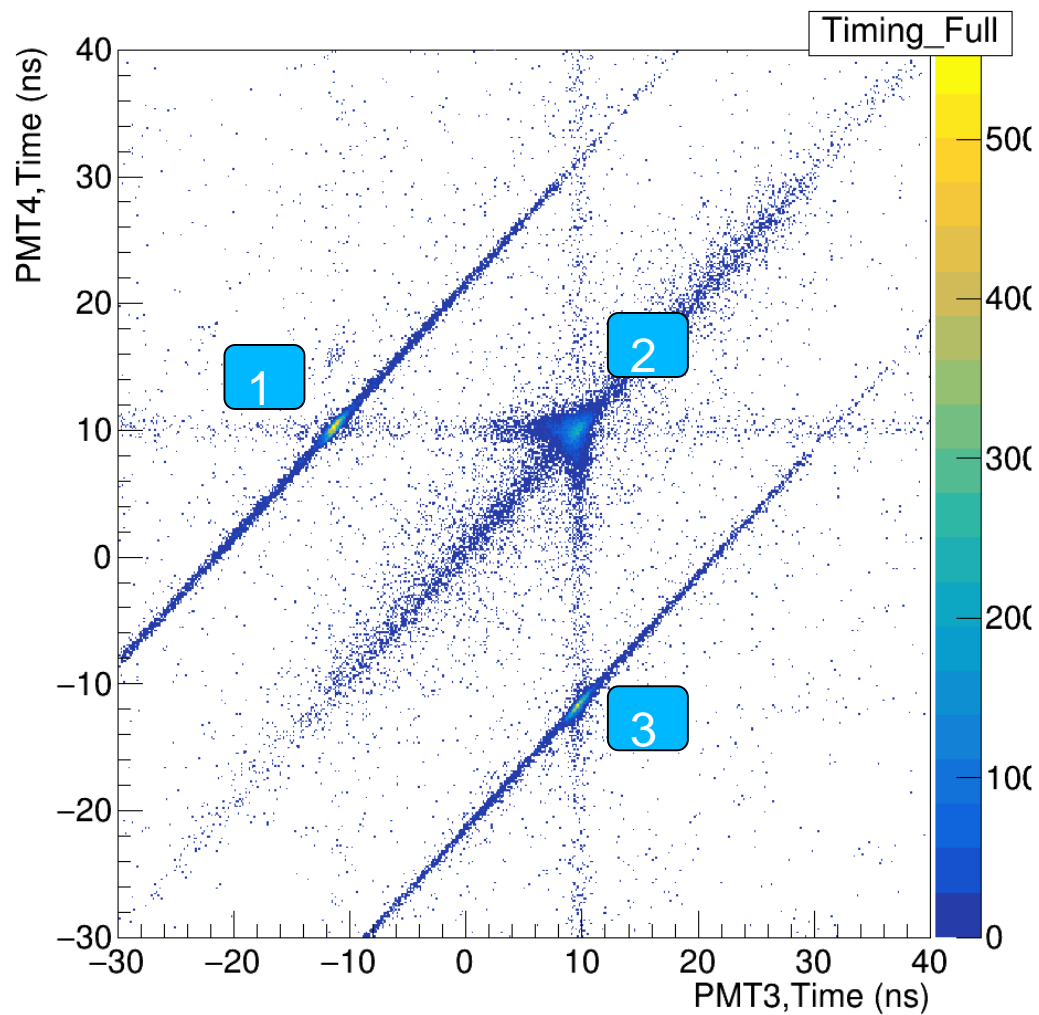


Timing cut used for good hits (PMT1, >14||<6, PMT2, >6||<-14)

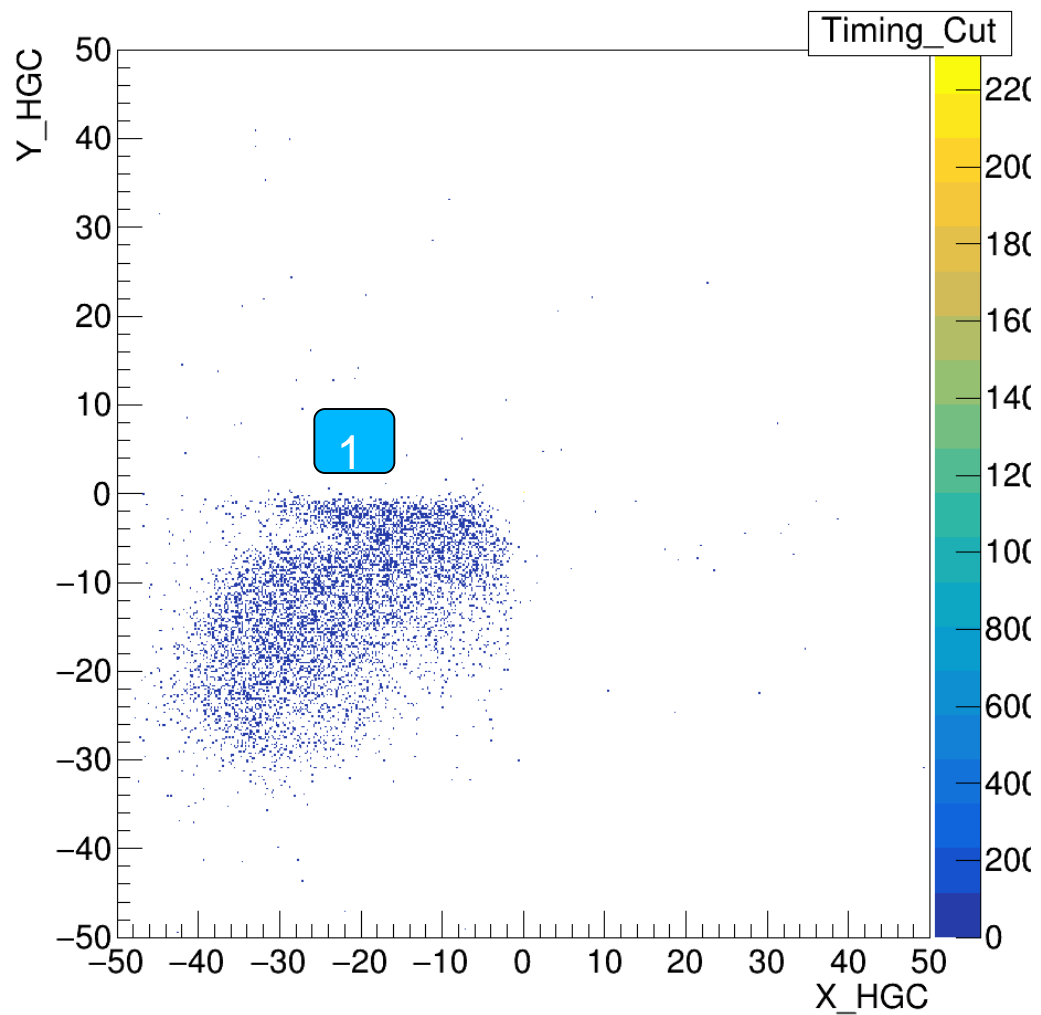


Timing information b/w PMT3 & PMT4 and track position

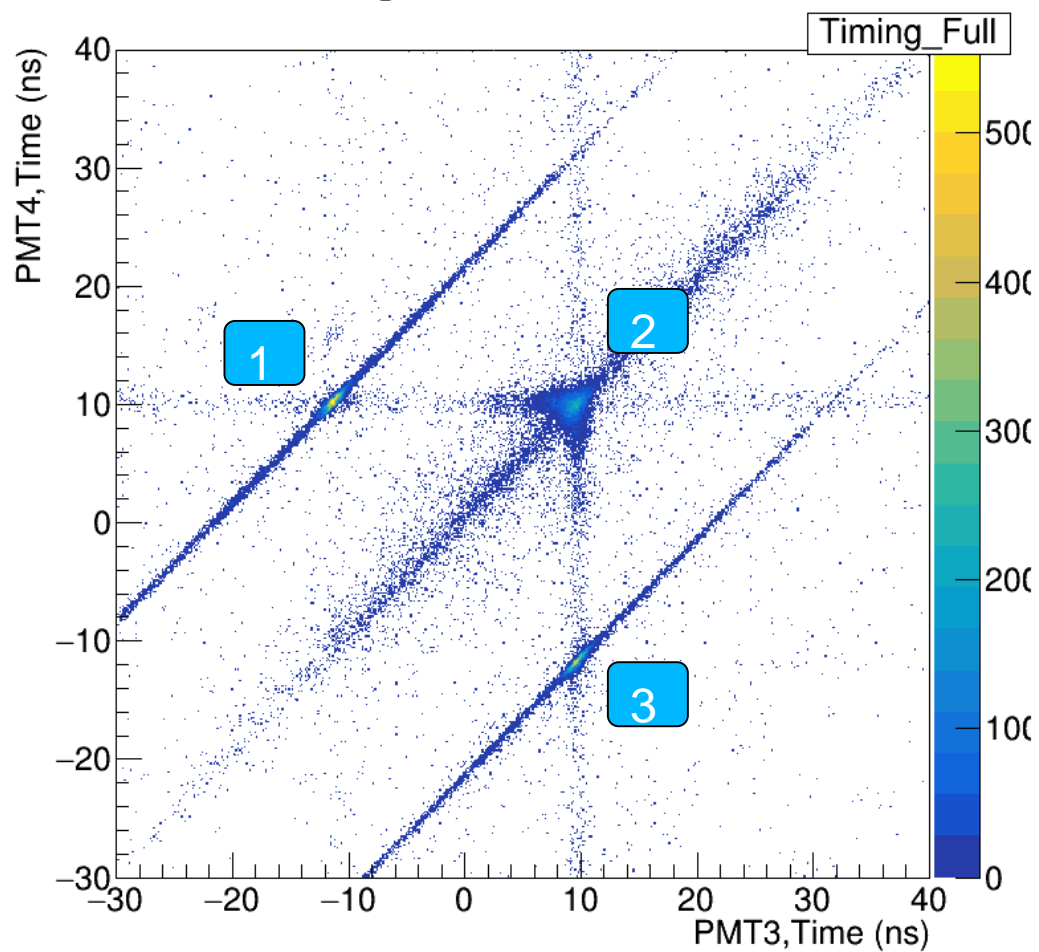
Full timing information for events



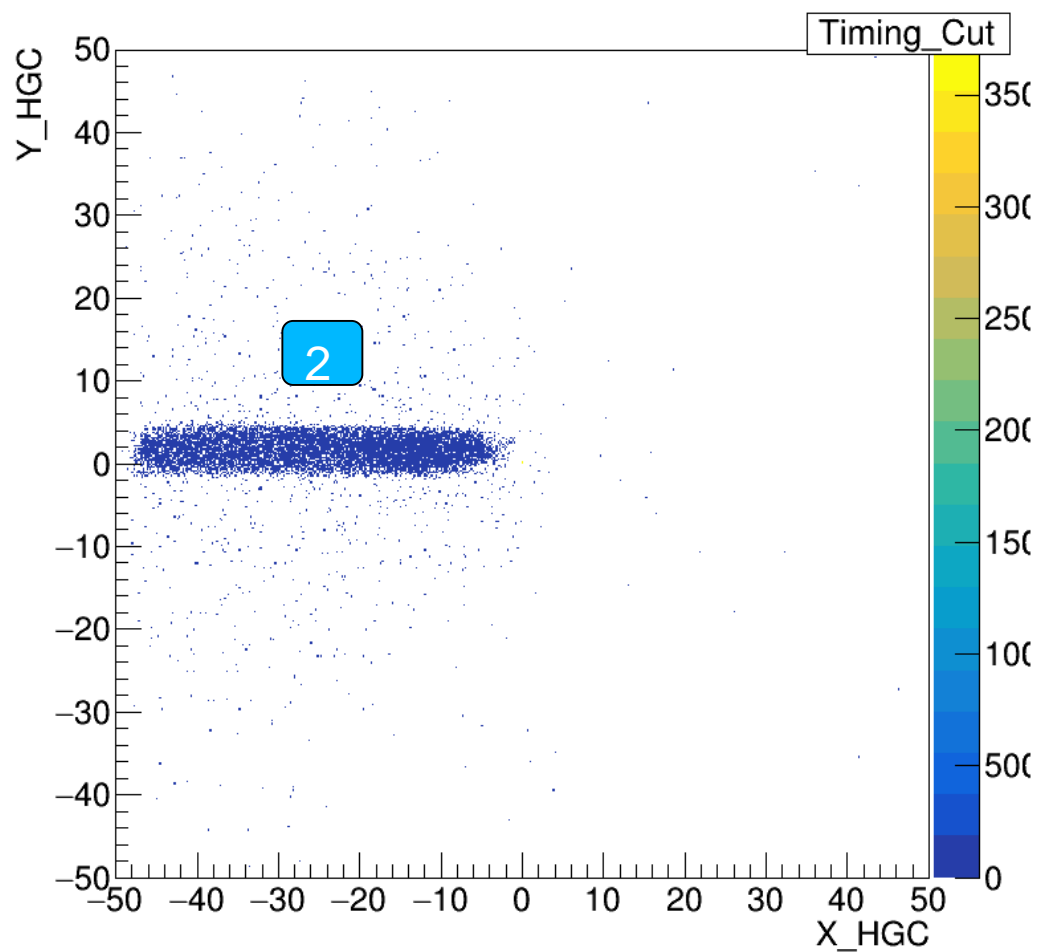
Timing cut used for good hits (PMT3, $>-8||<-16$, PMT4, $>14||<6.0$)



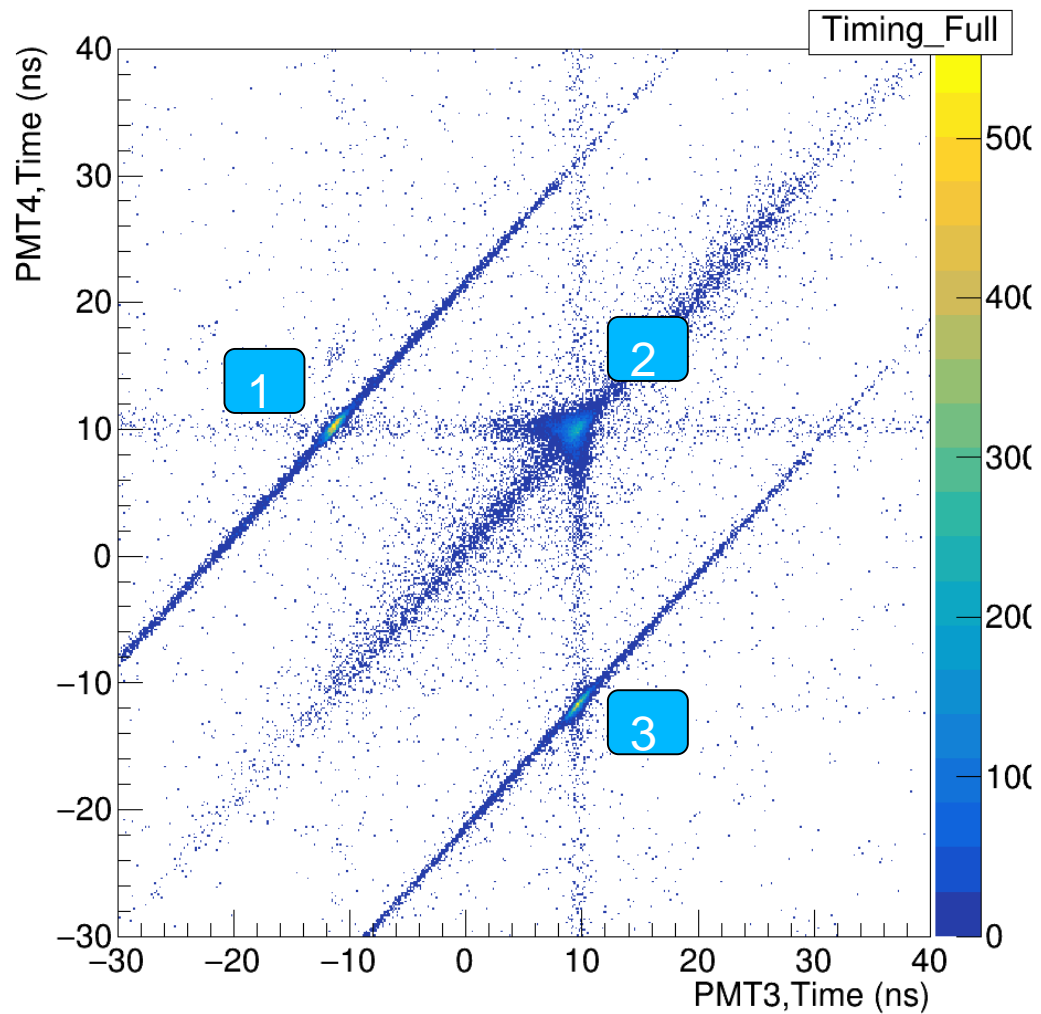
Full timing information for events



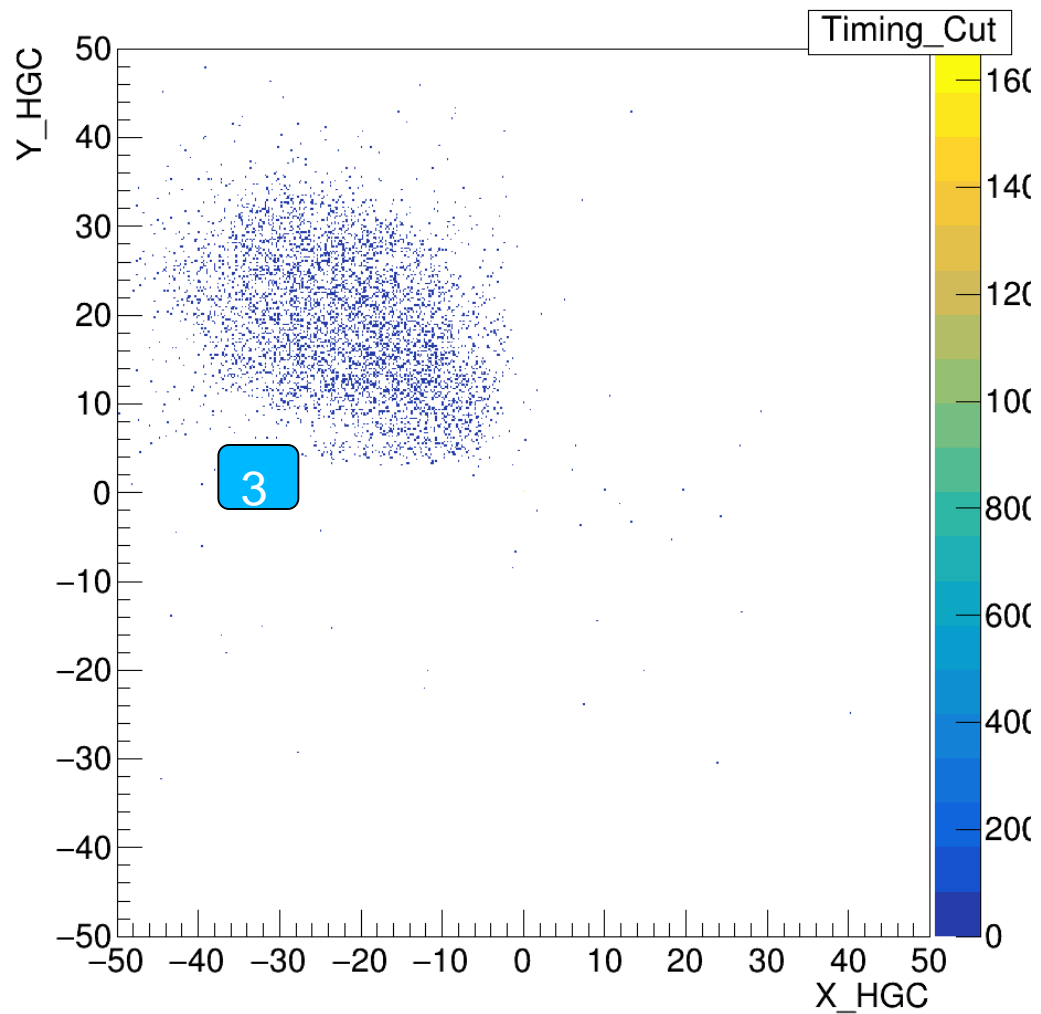
Timing cut used for good hits (PMT3, >14||<4, PMT4, >16||<4.0)



Full timing information for events



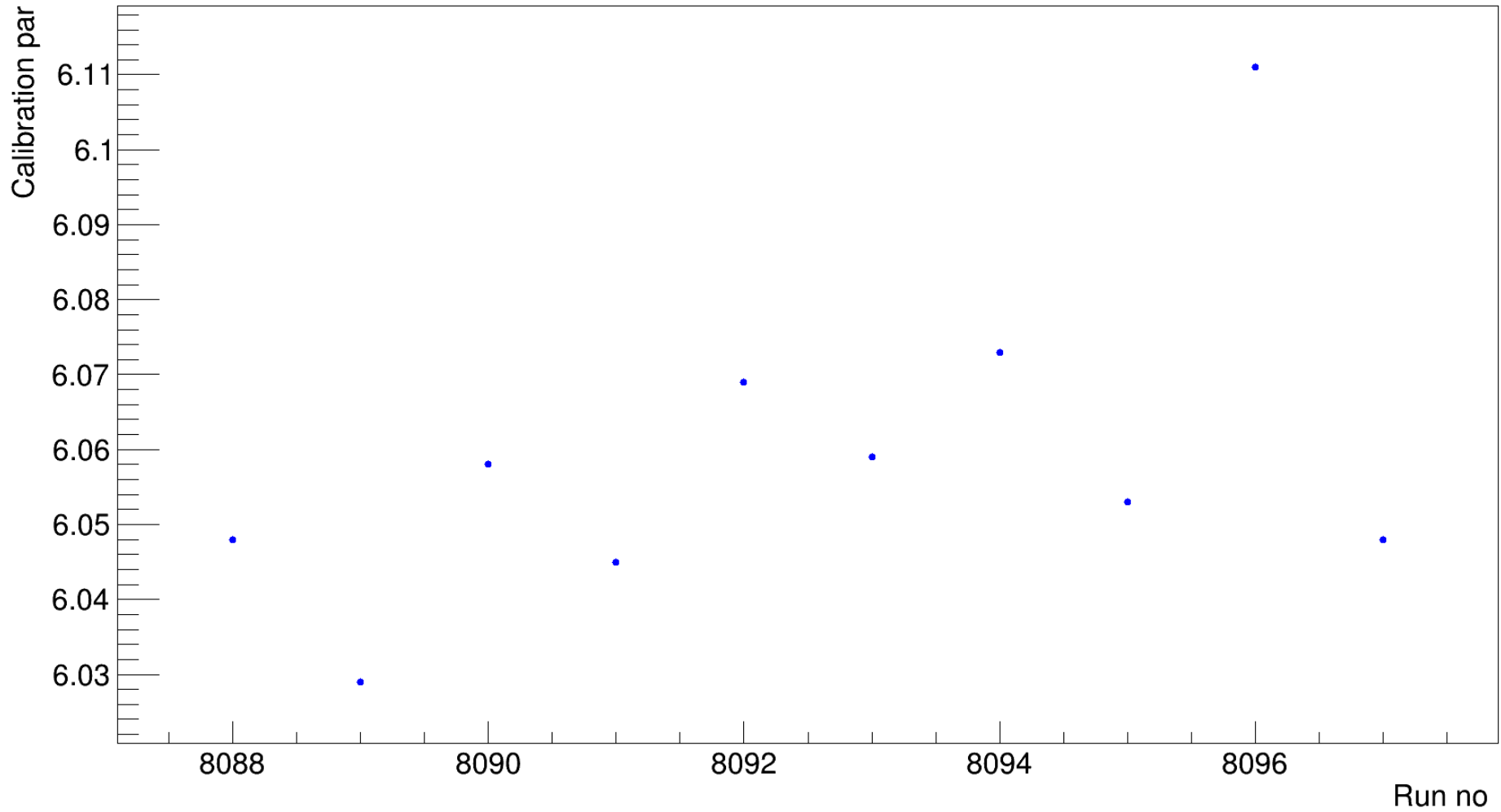
Timing cut used for good hits (PMT3, >14||<4, PMT4, >-8||<-16.0)



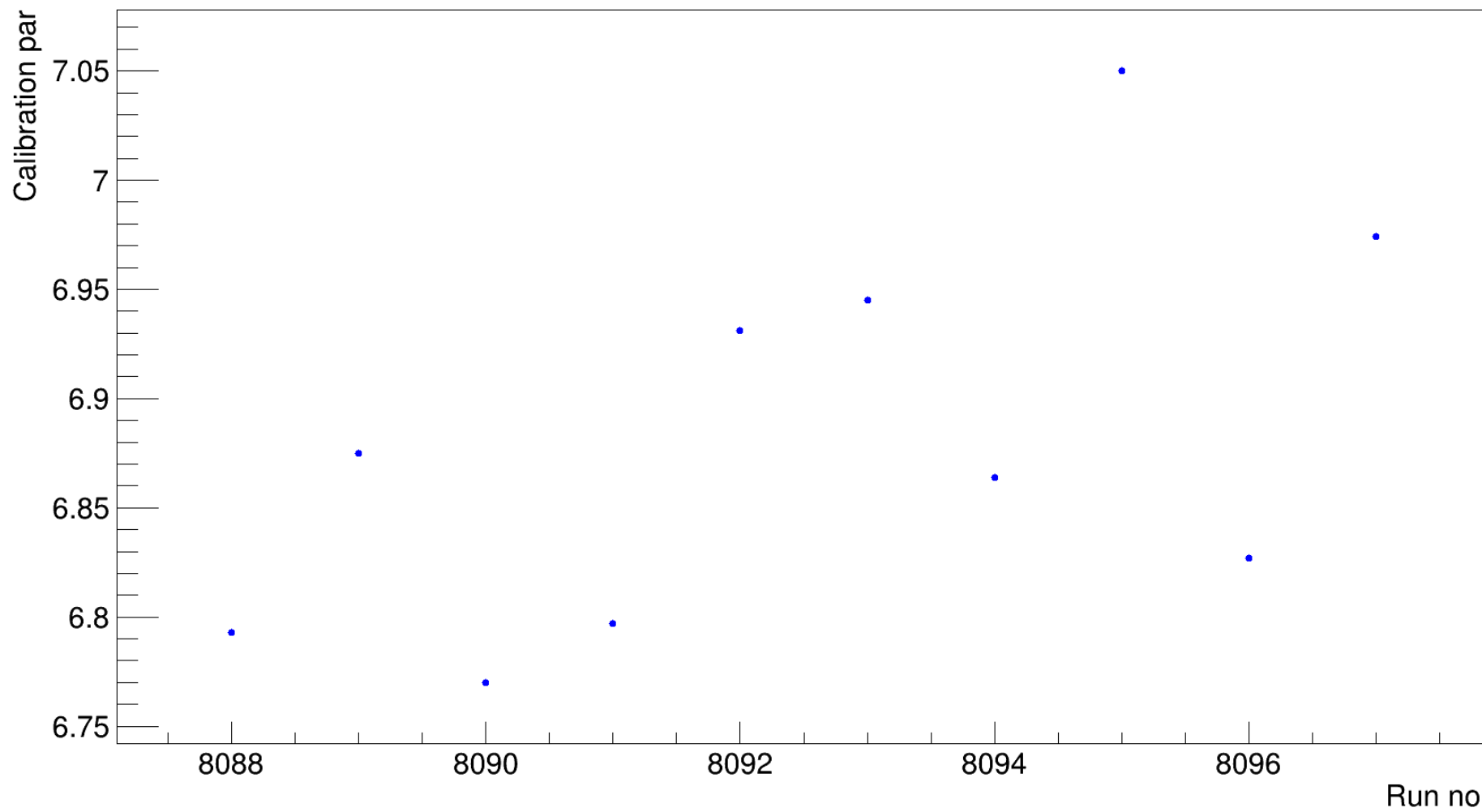
Calibration

Q2 = 3.0, P = 6.0530

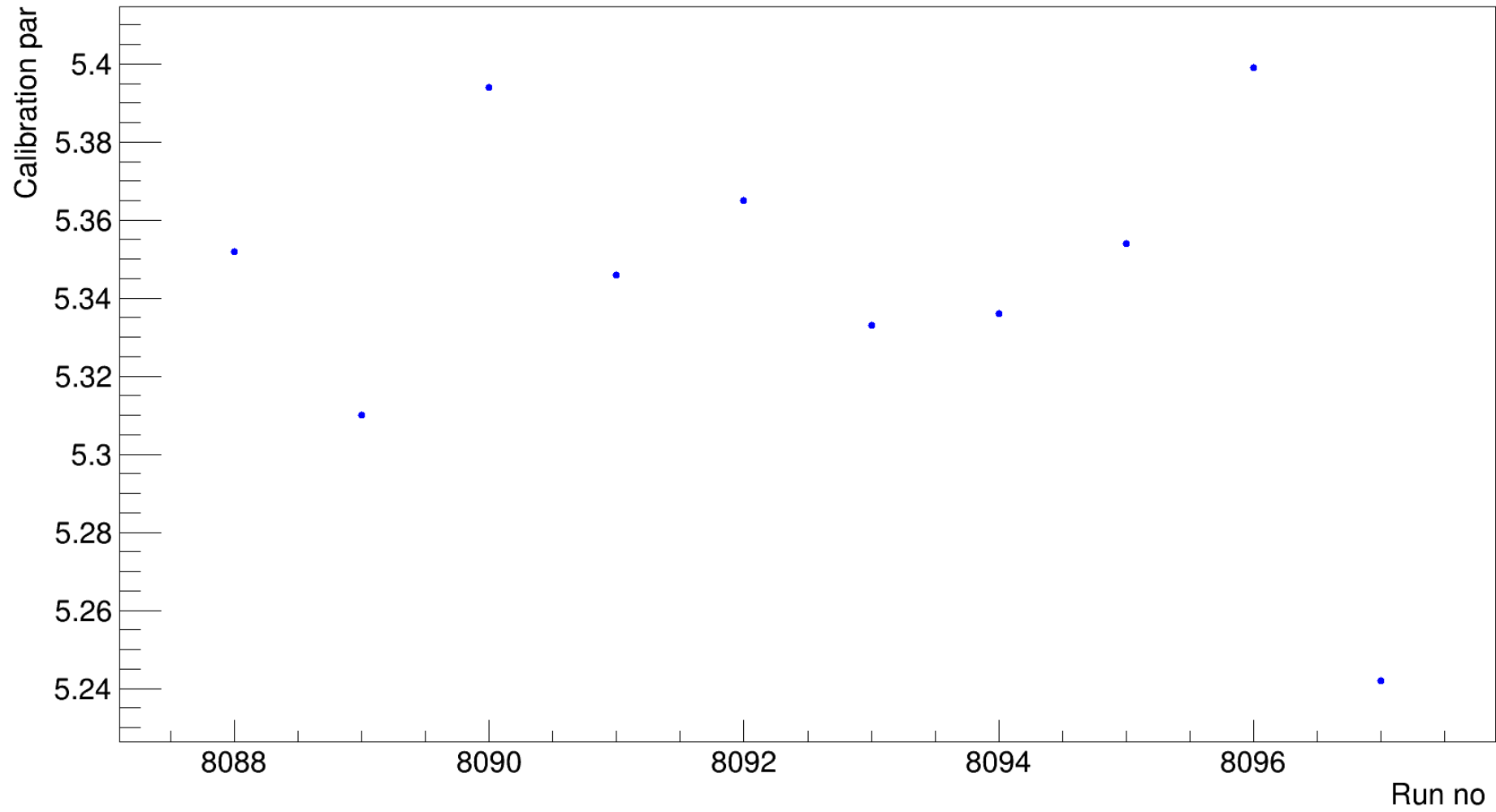
Plot between Run no & Calibration Parameters [PMT:1]



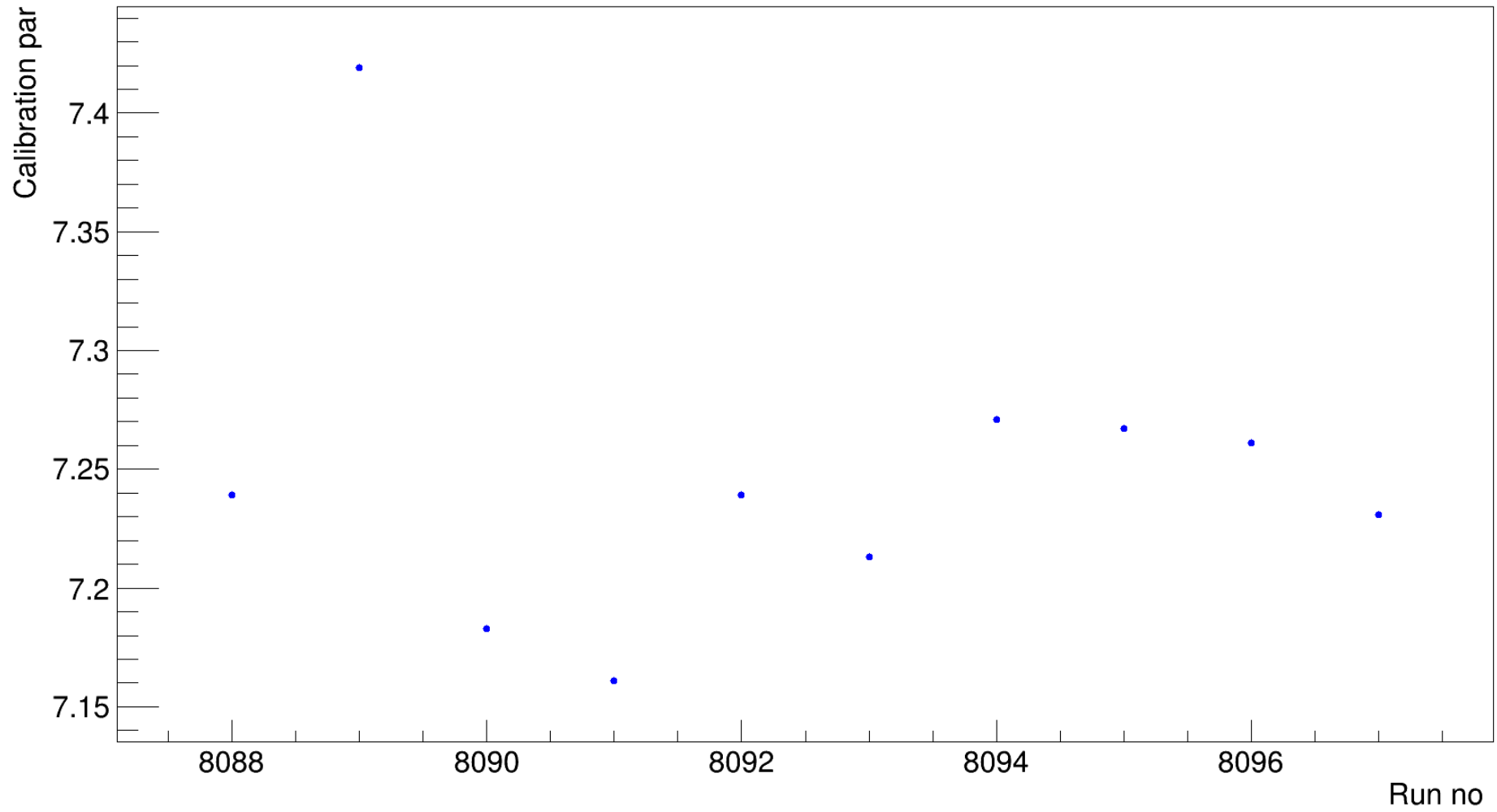
Plot between Run no & Calibration Parameters [PMT:2]



Plot between Run no & Calibration Parameters [PMT:3]

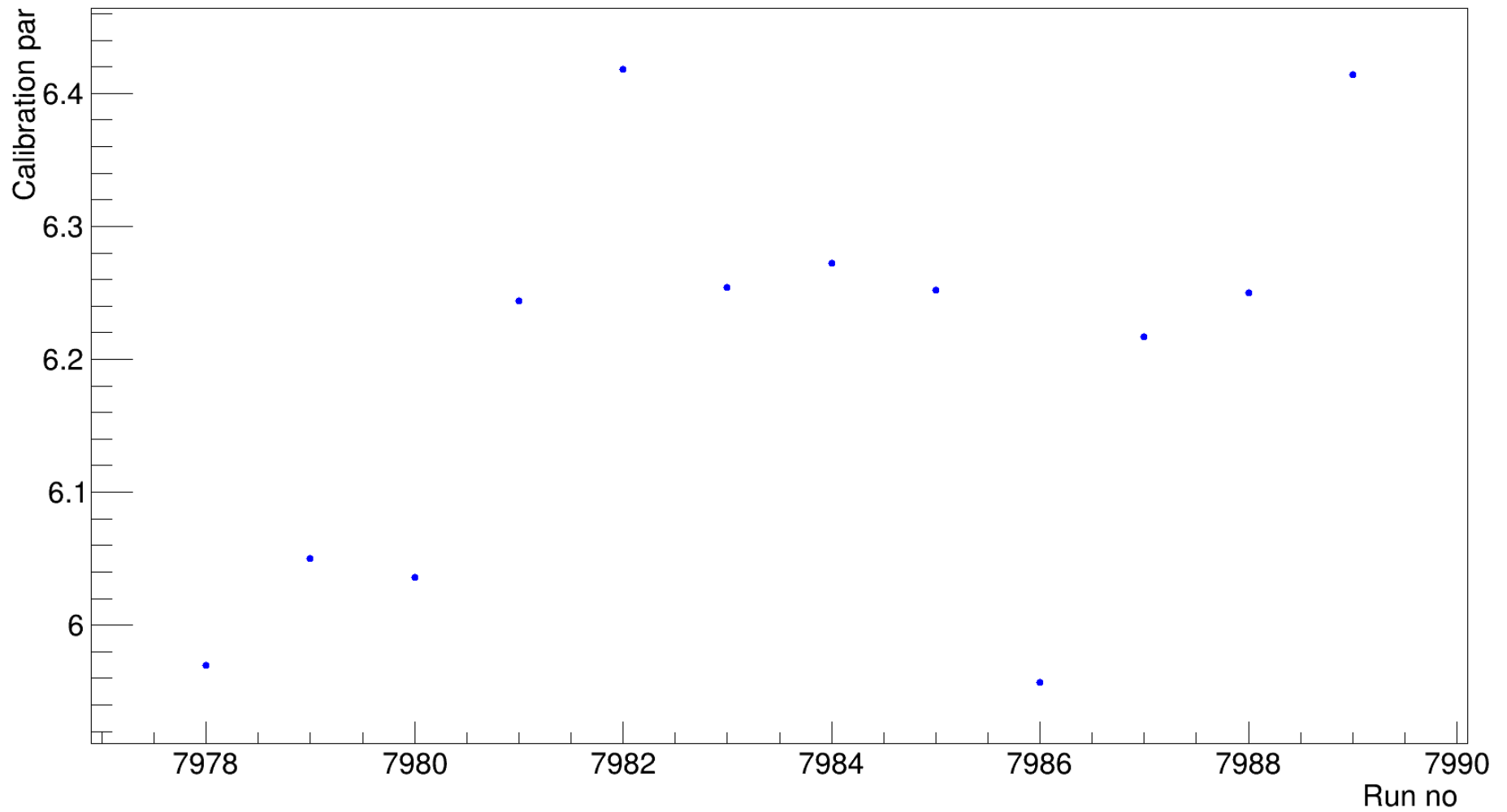


Plot between Run no & Calibration Parameters [PMT:4]

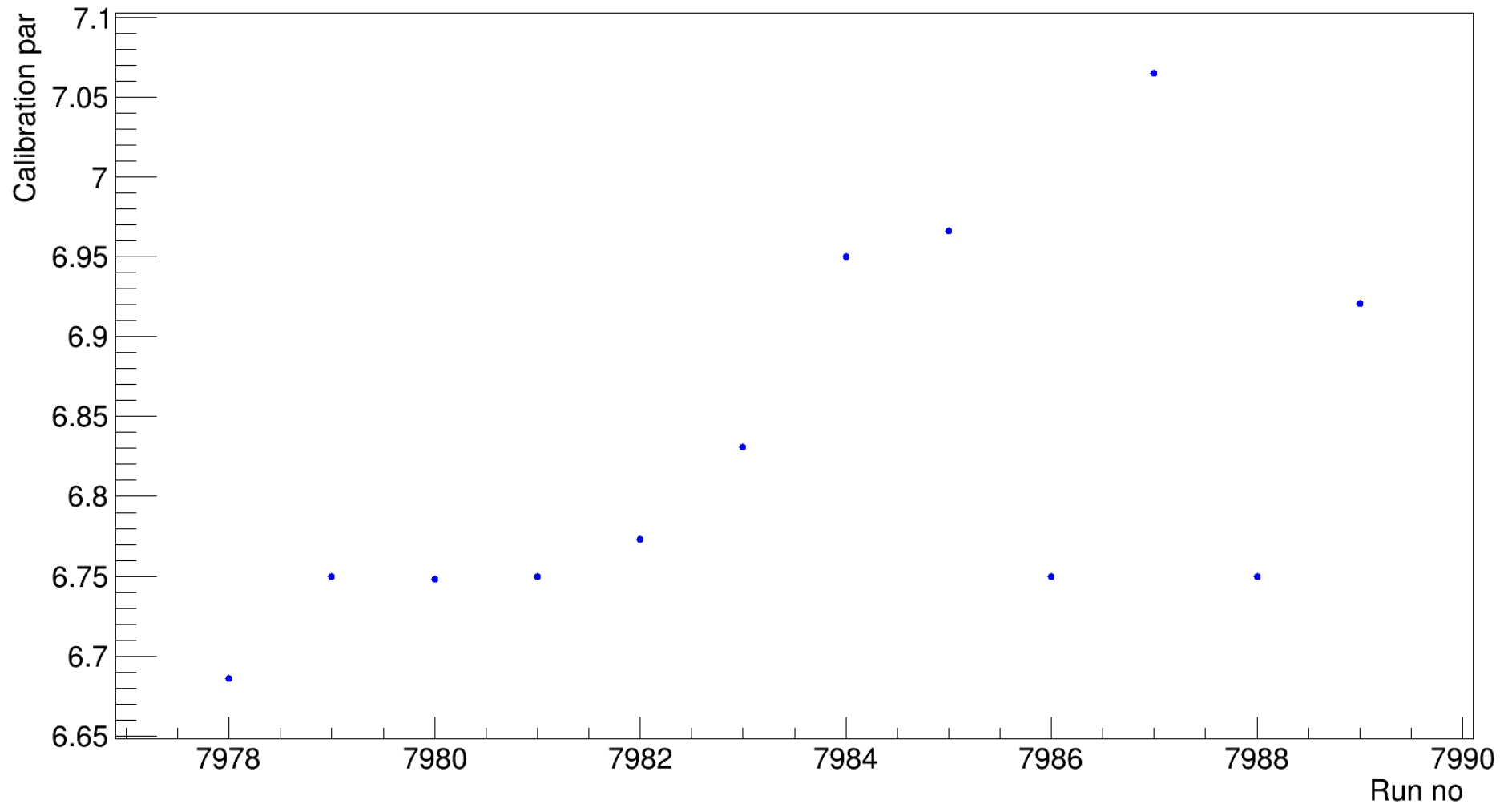


Q2 = 4.4, P = 5.389

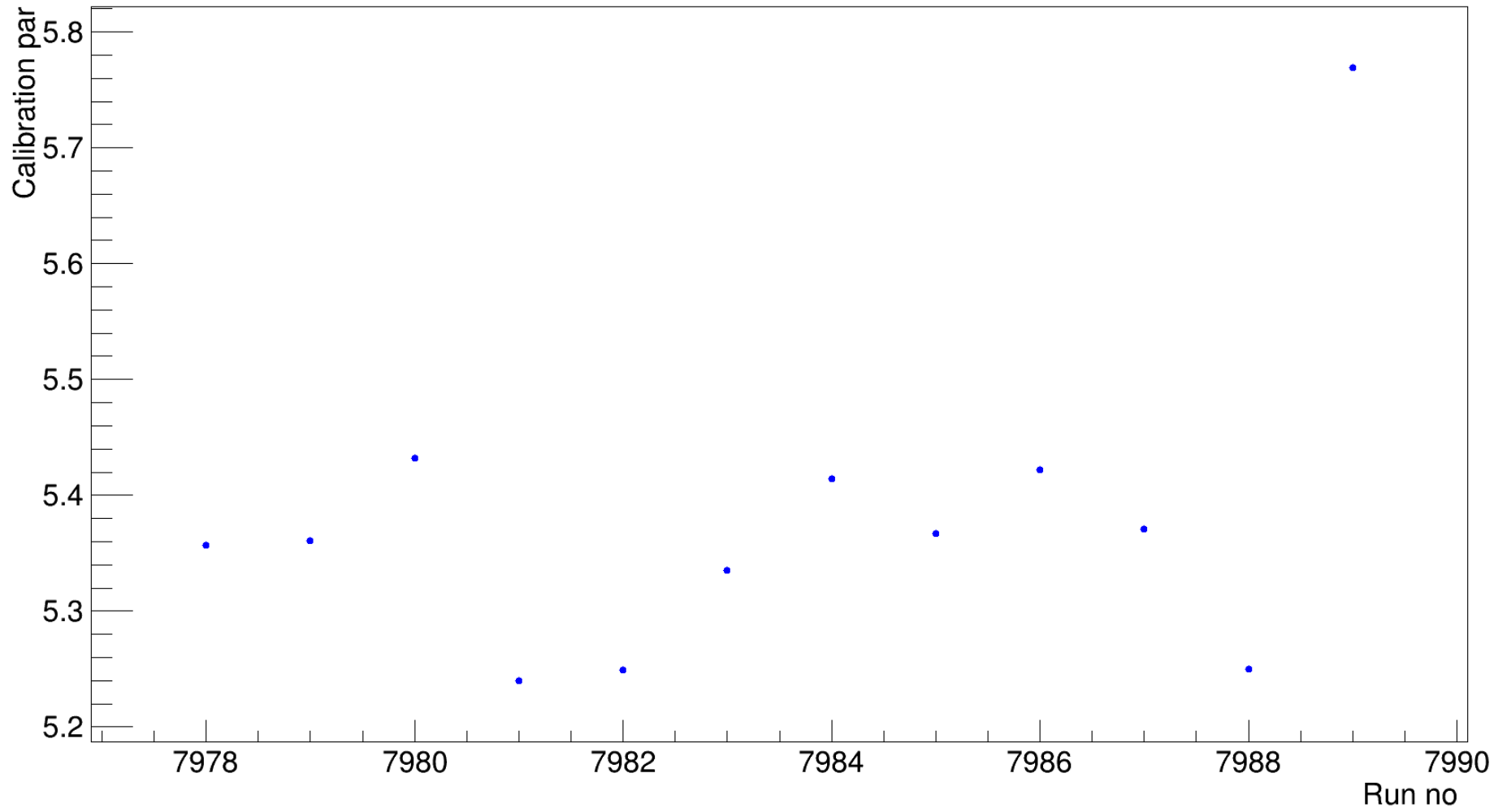
Plot between Run no & Calibration Parameters [PMT:1]



Plot between Run no & Calibration Parameters [PMT:2]



Plot between Run no & Calibration Parameters [PMT:3]



Plot between Run no & Calibration Parameters [PMT:4]

