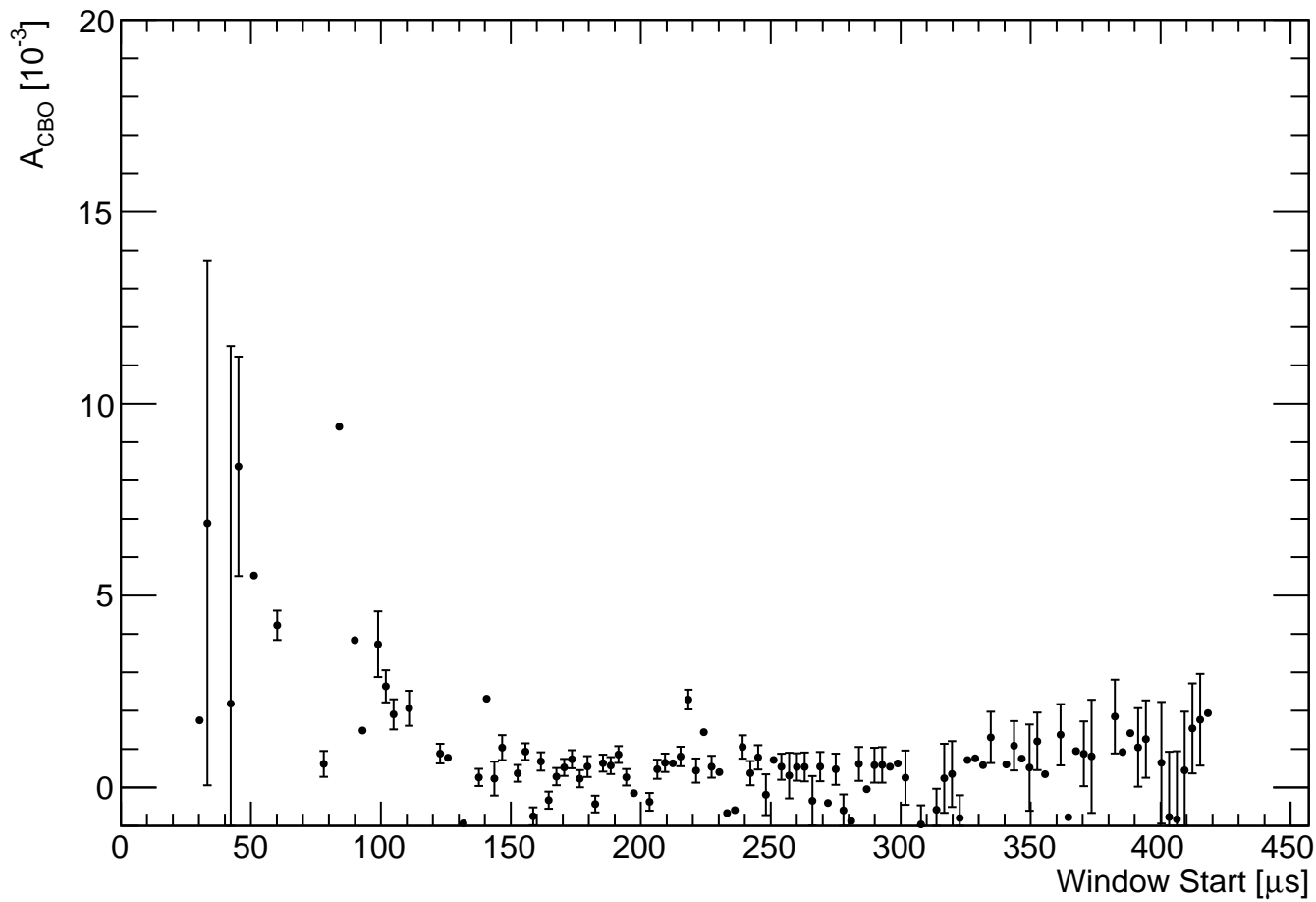
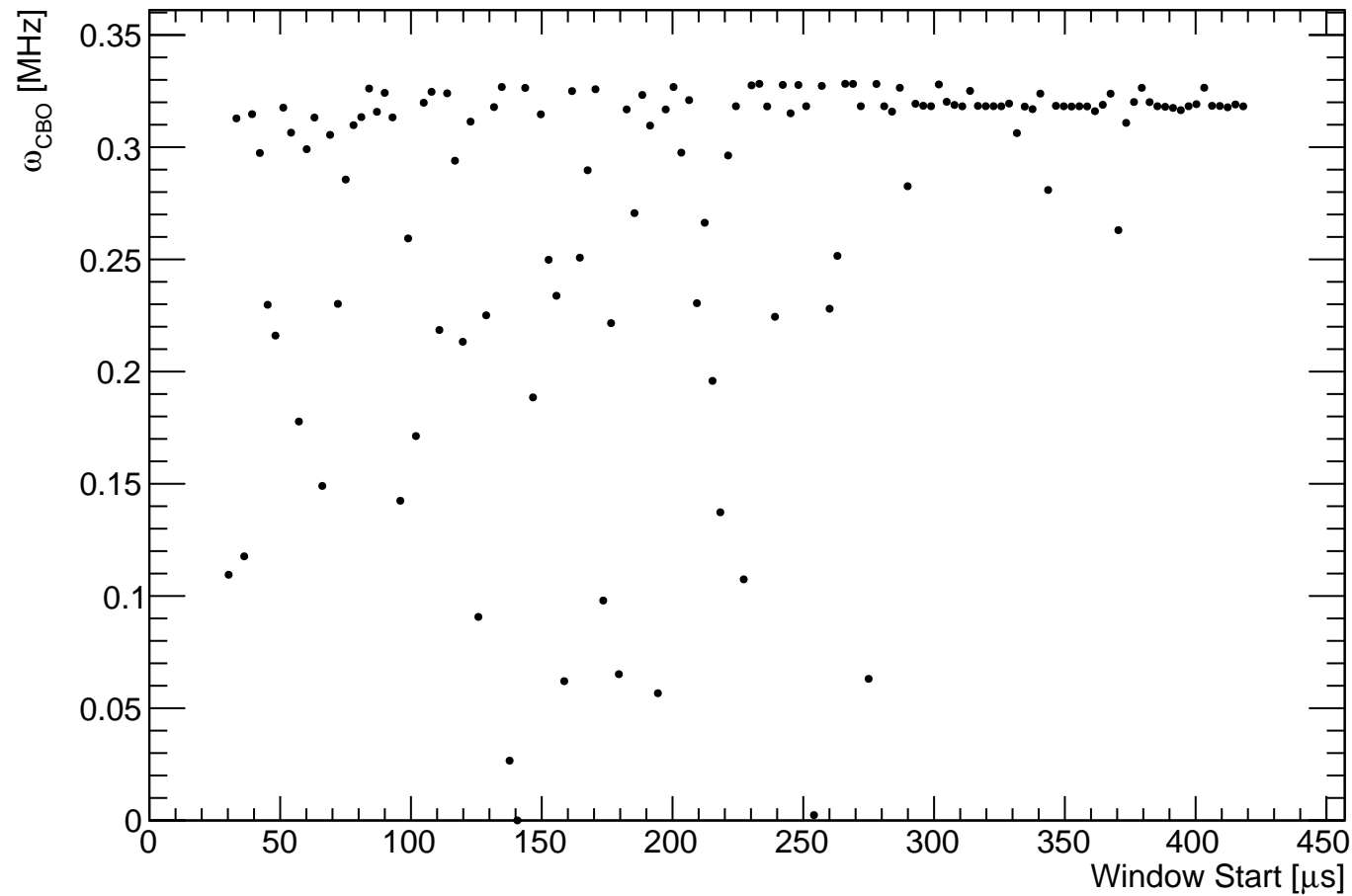


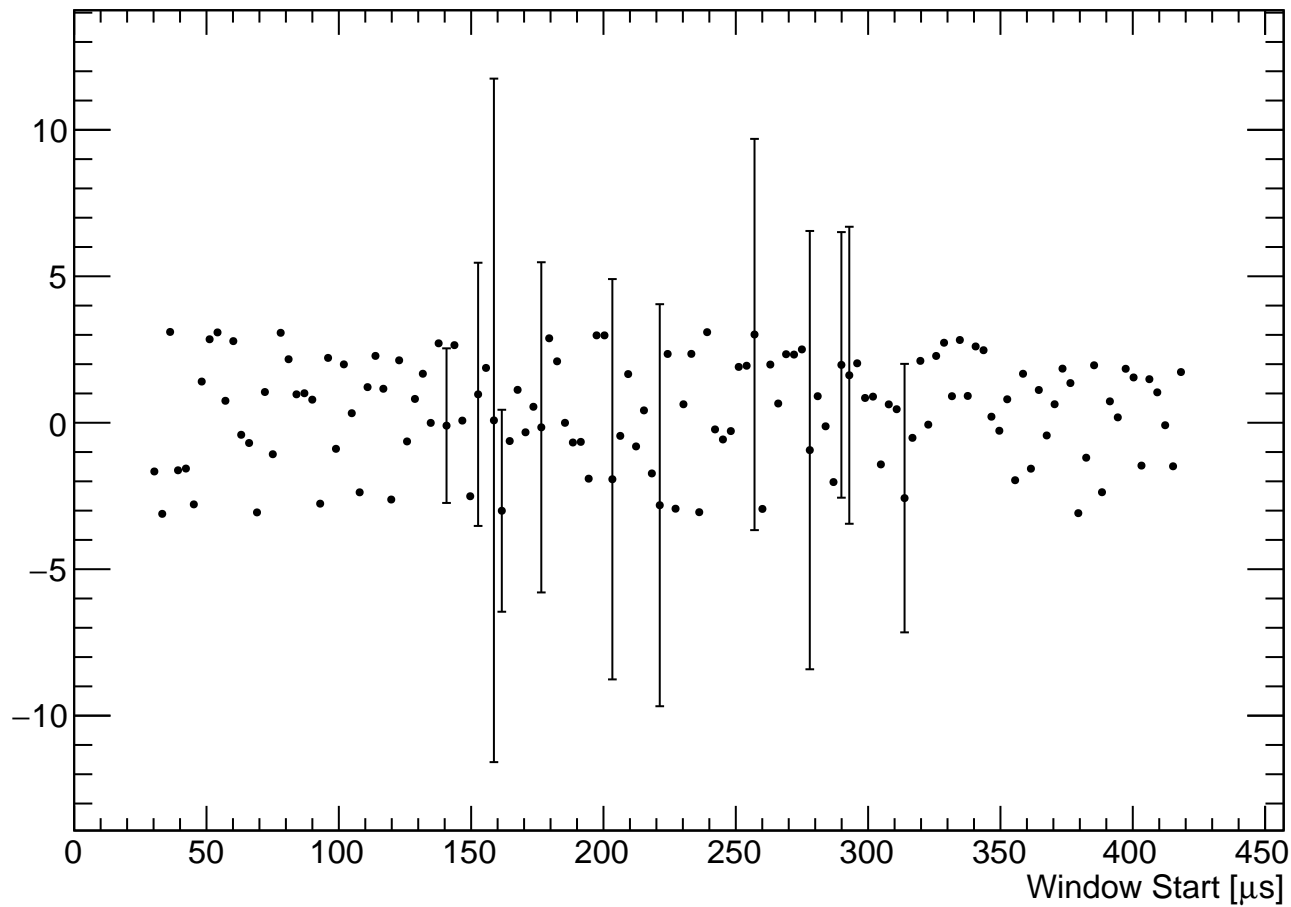
A\_CBO v time

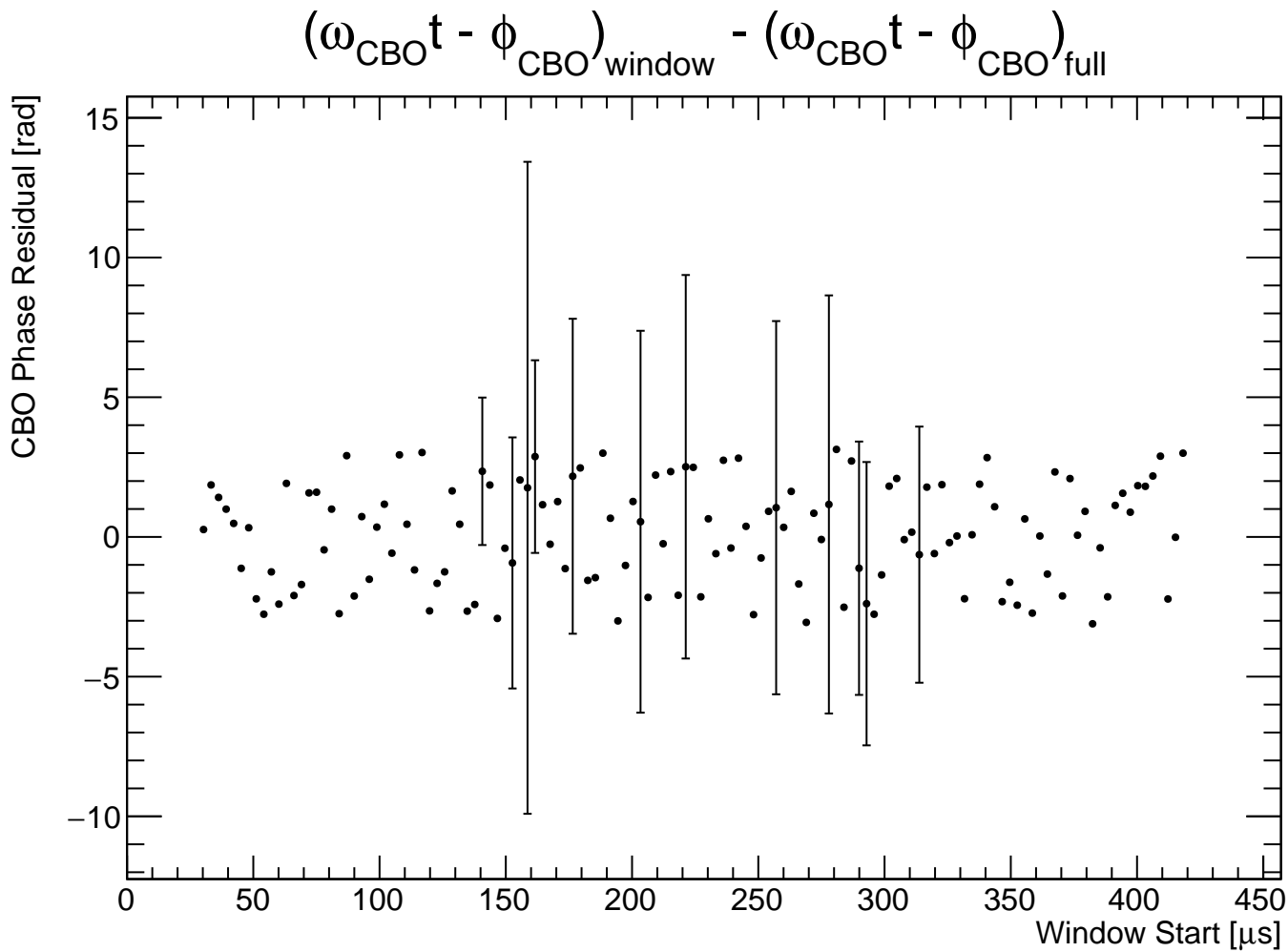


w\_CBO v time

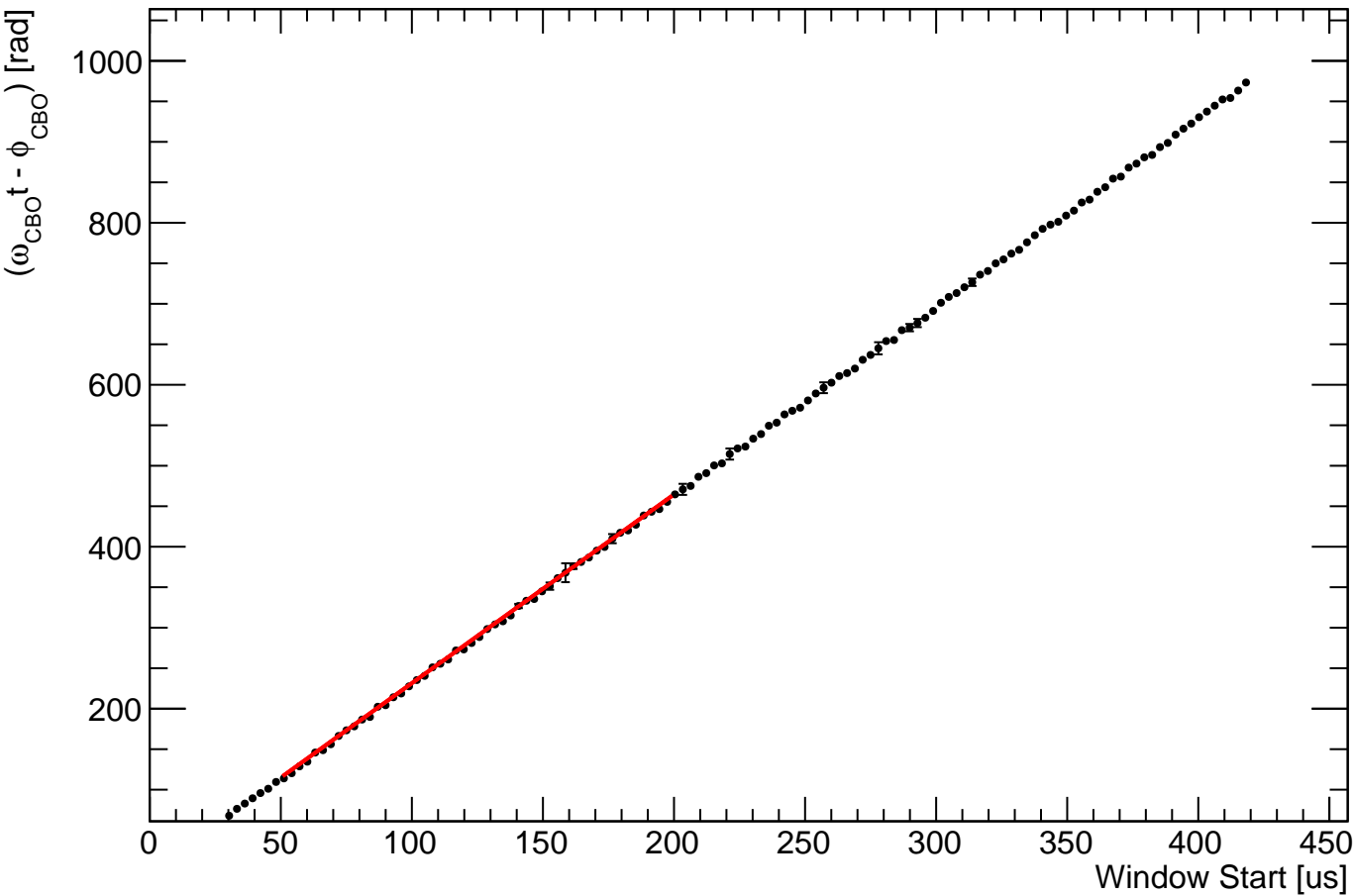


p\_CBO v time



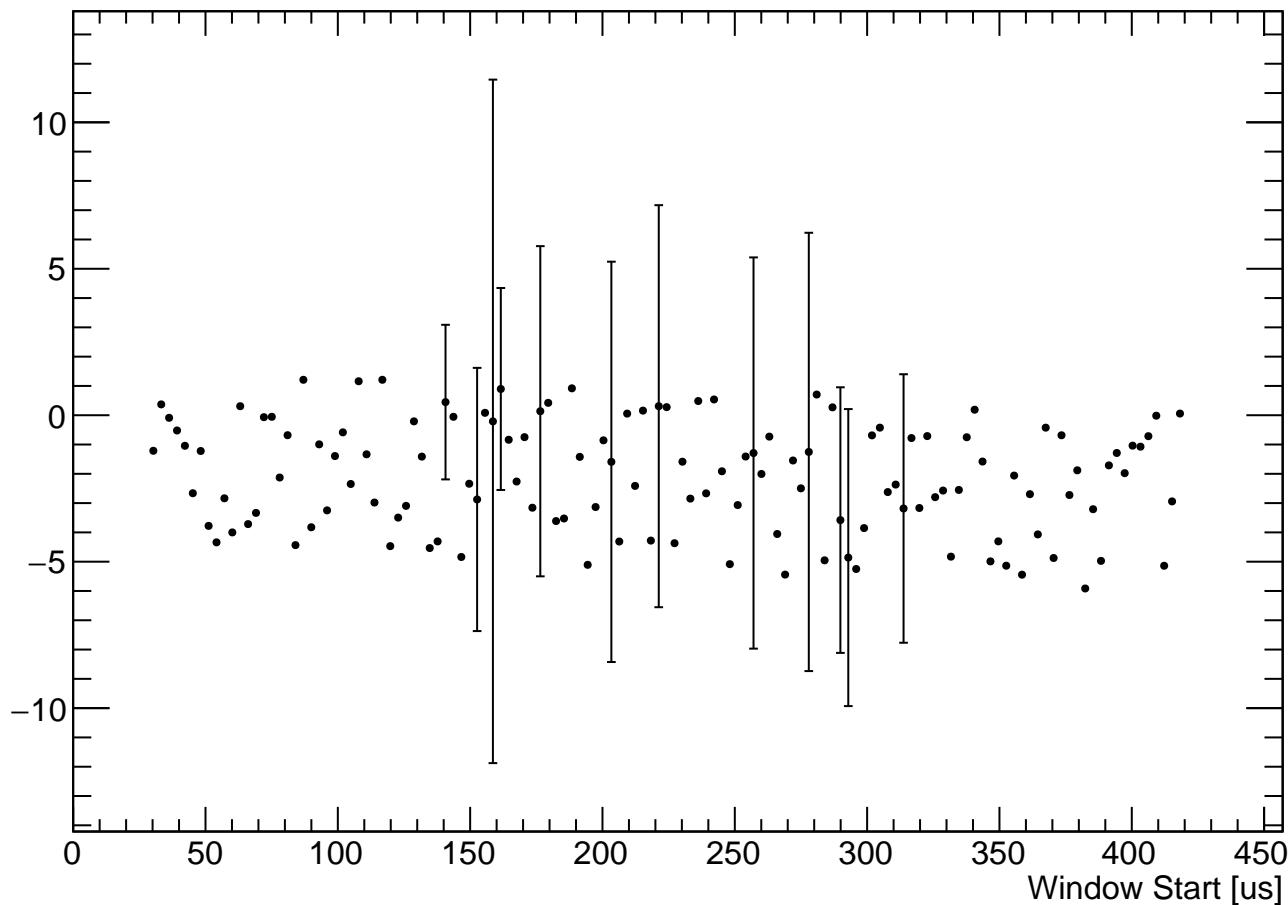


# CBO Phase Advance from Sliding Windows

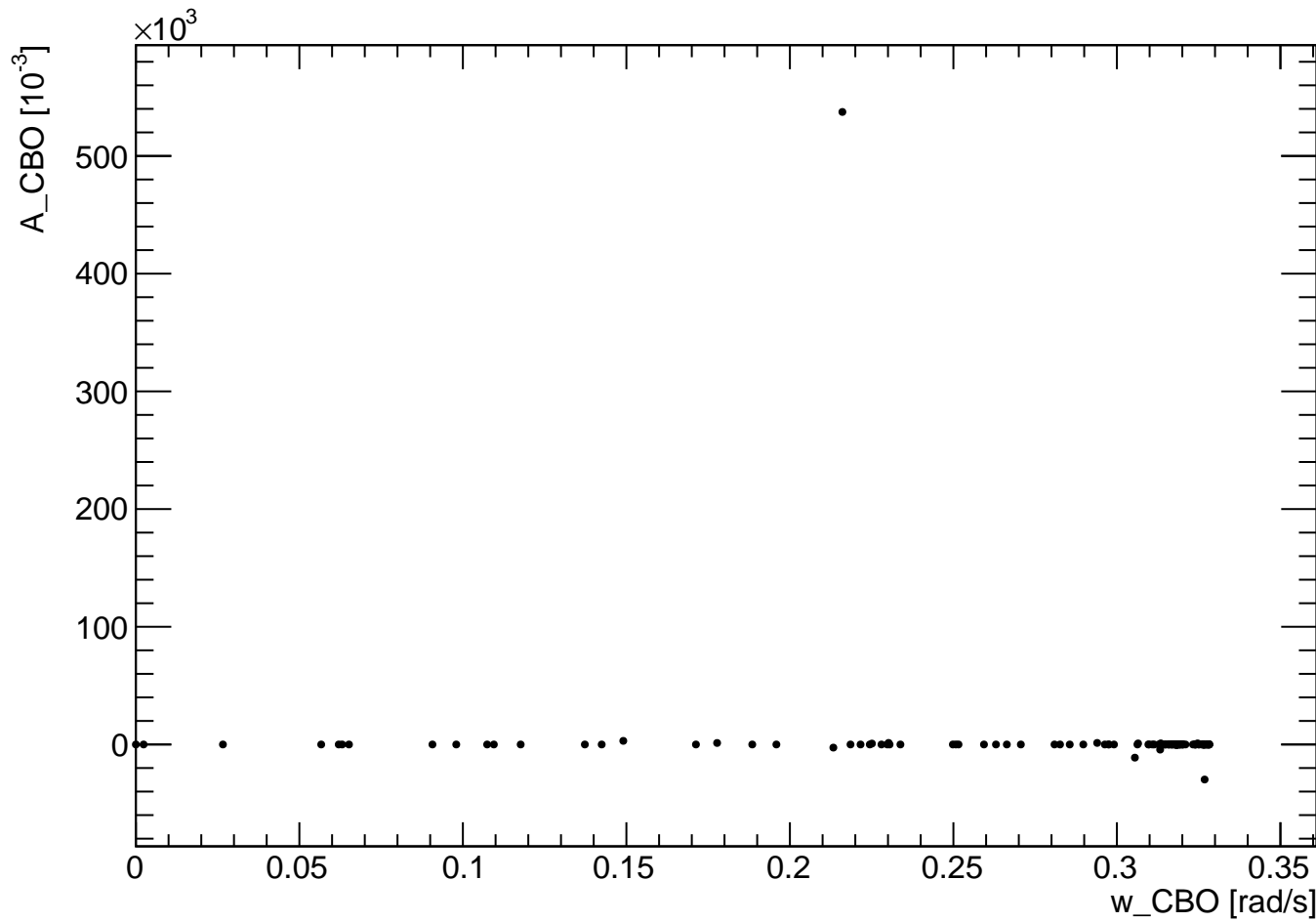


$$(\omega_{\text{CBO}} t - \phi_{\text{CBO}})_{\text{window}} - (\omega_0 t - \phi_0)_{\text{late}}$$

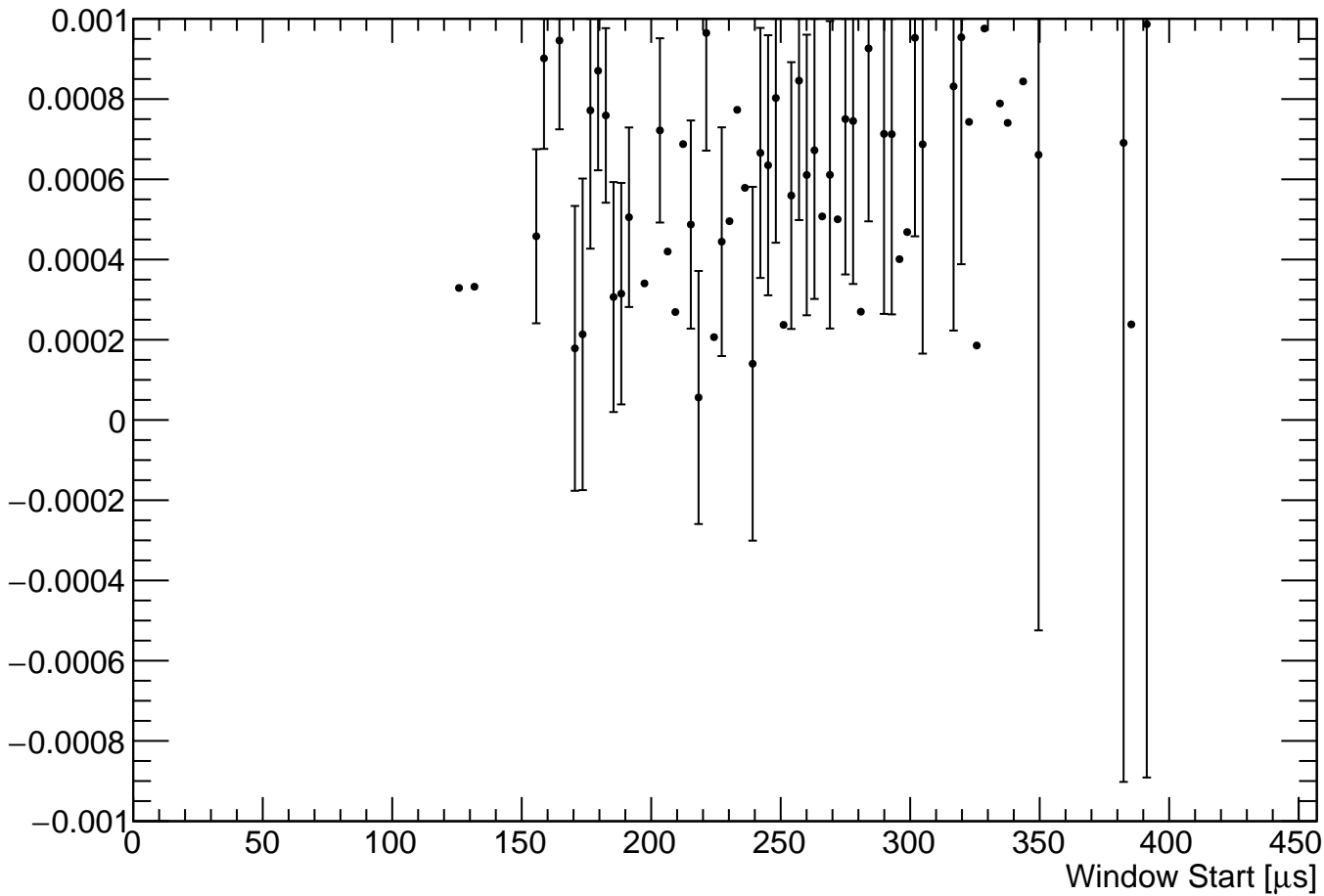
CBO Phase Residual [rad]



w\_CBO vs A\_CBO

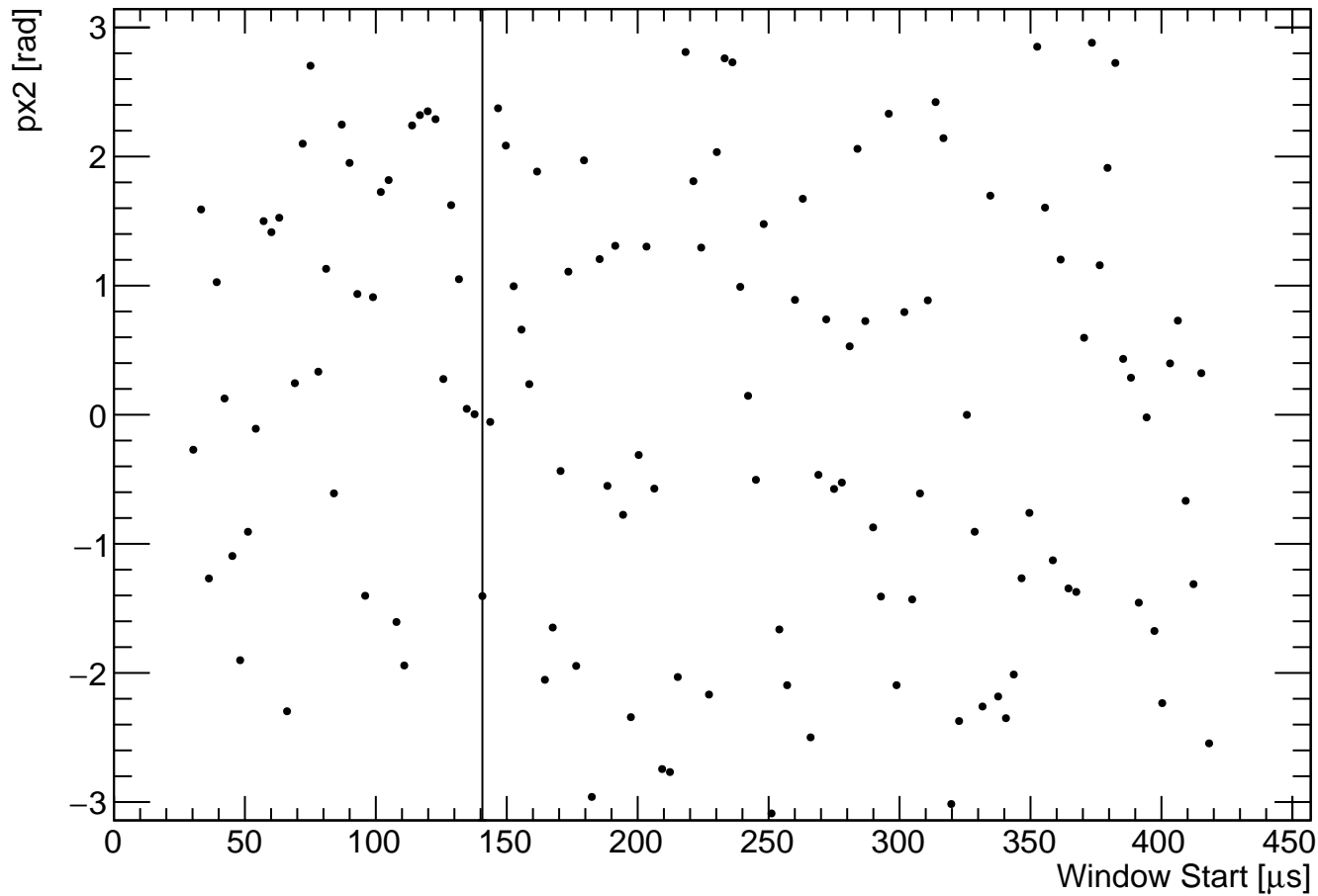


Ax2





px2



Ay1



py1



Ay2

Ay2

0.12  
0.1  
0.08  
0.06  
0.04  
0.02  
0

0

50

100

150

200

250

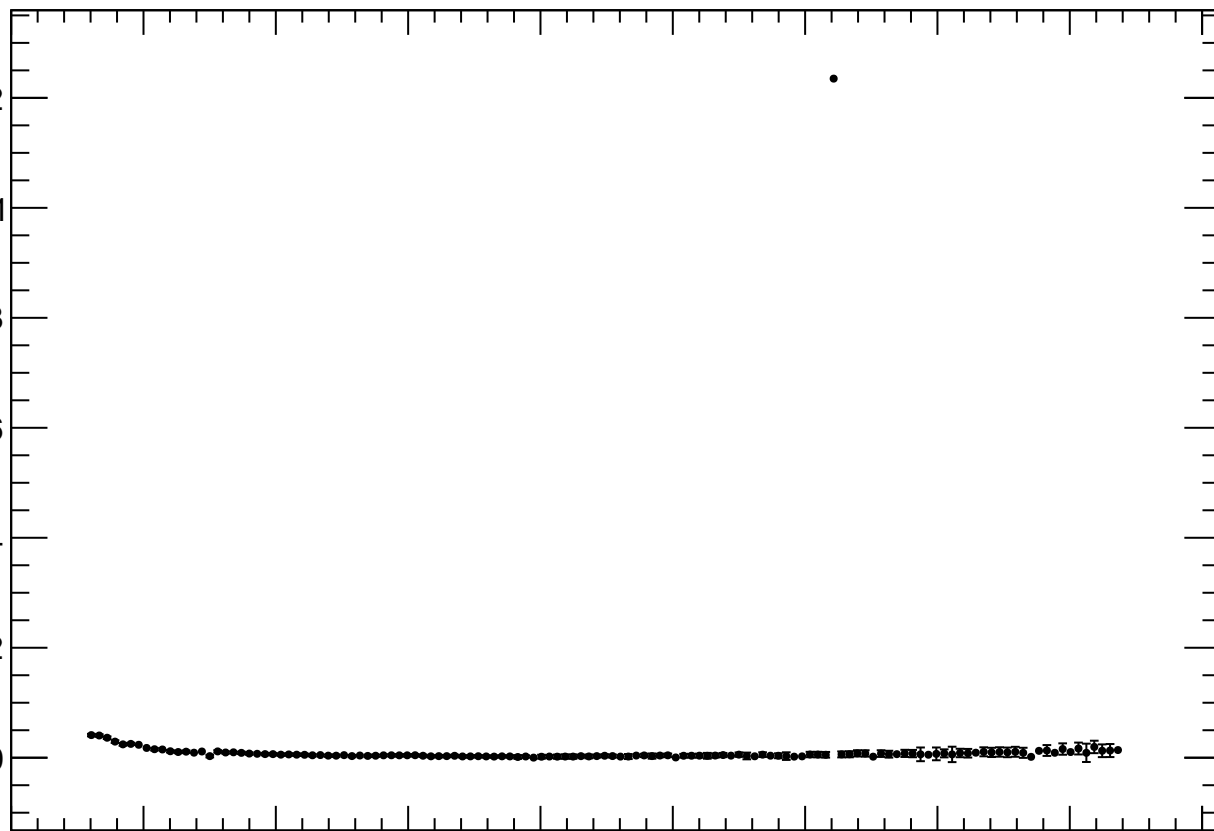
300

350

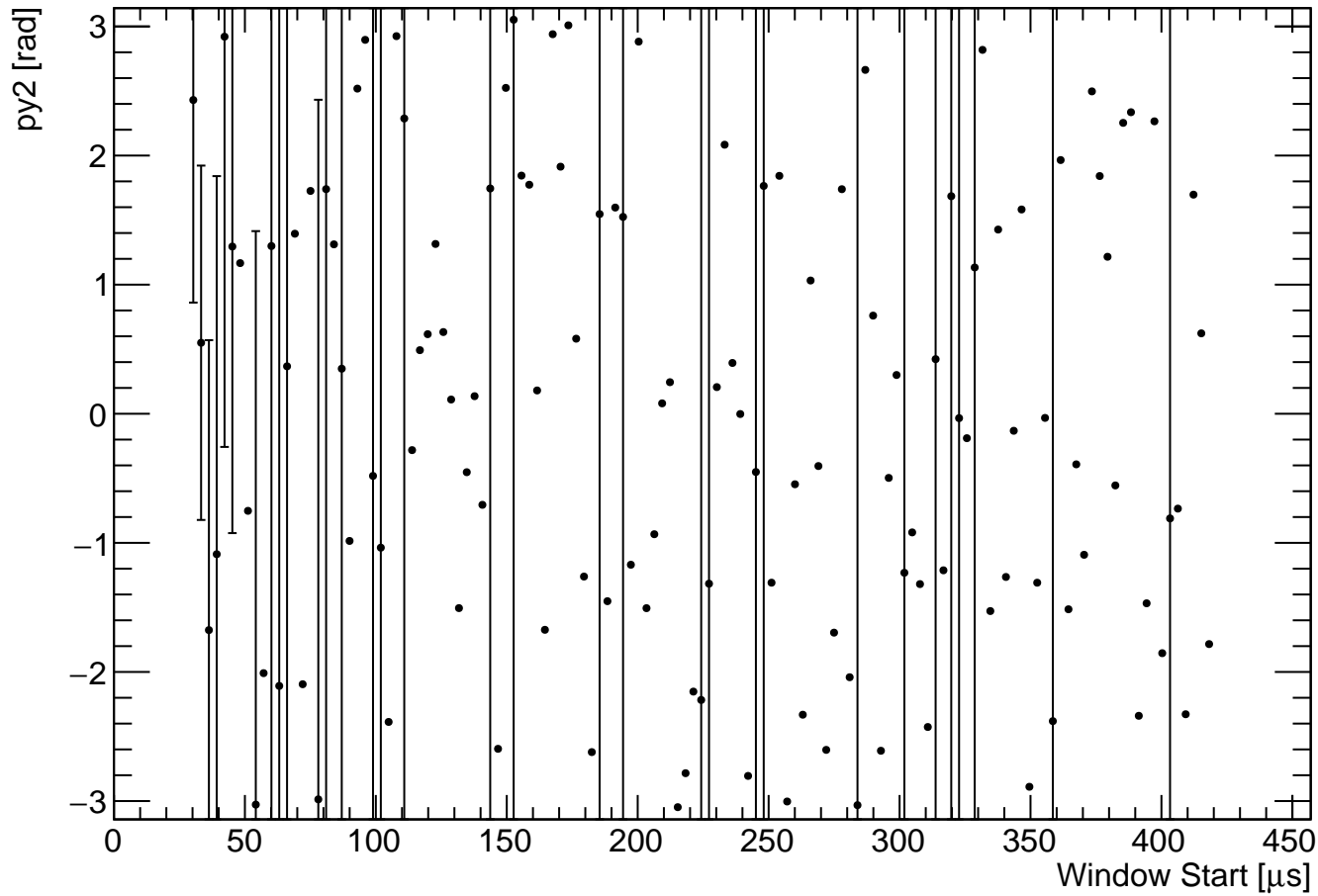
400

450

Window Start [ $\mu$ s]



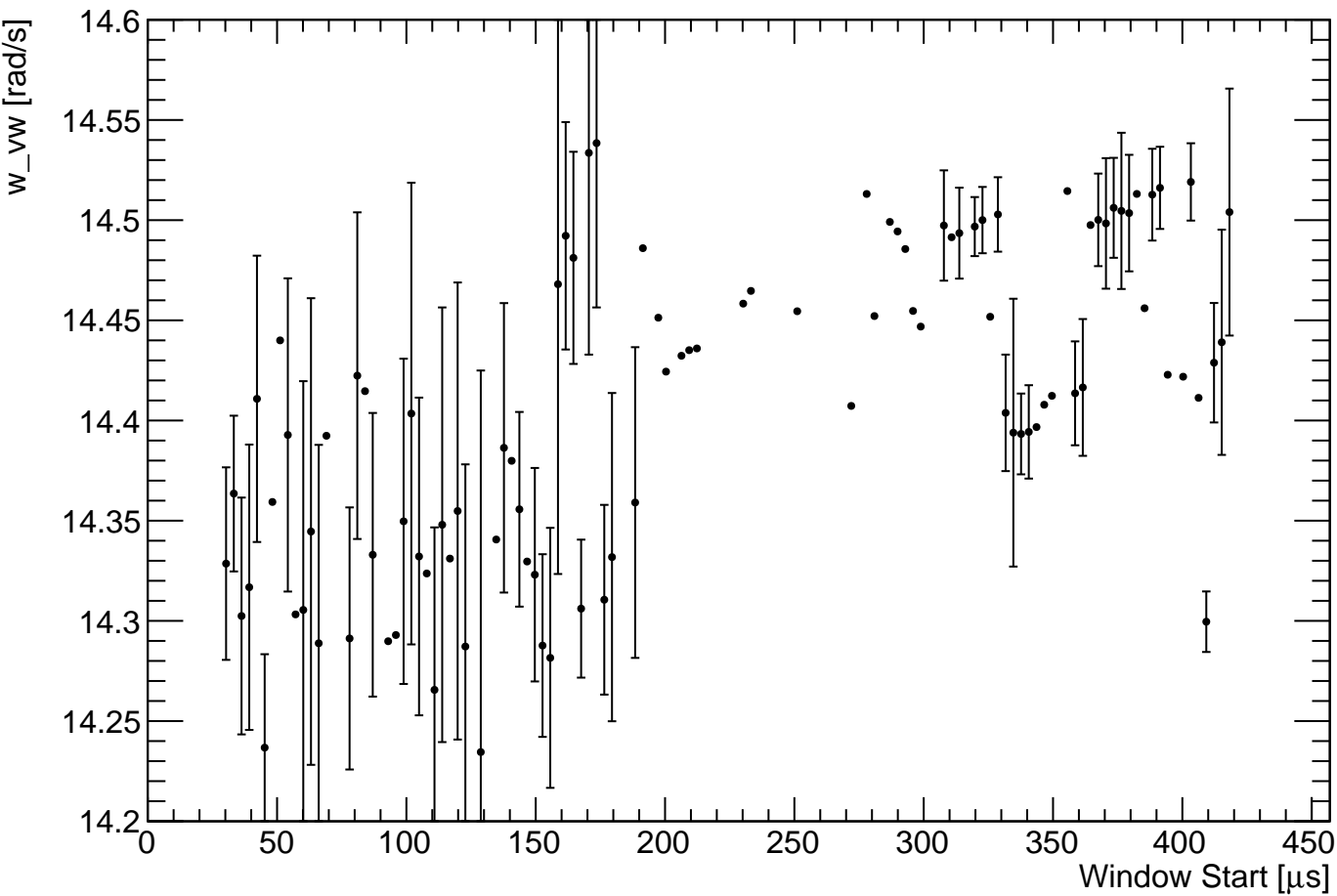
py2



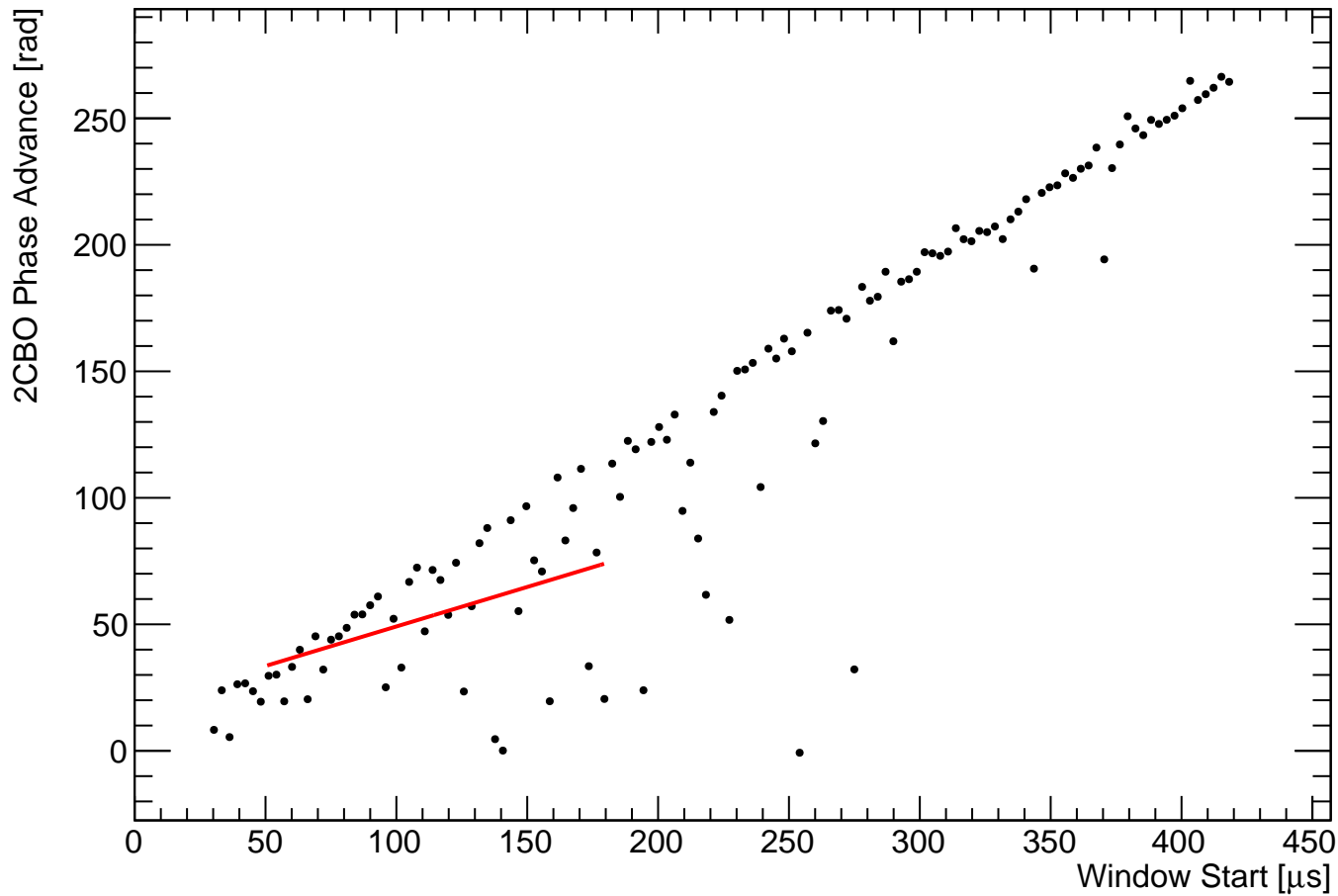
$w_y$



W\_VW

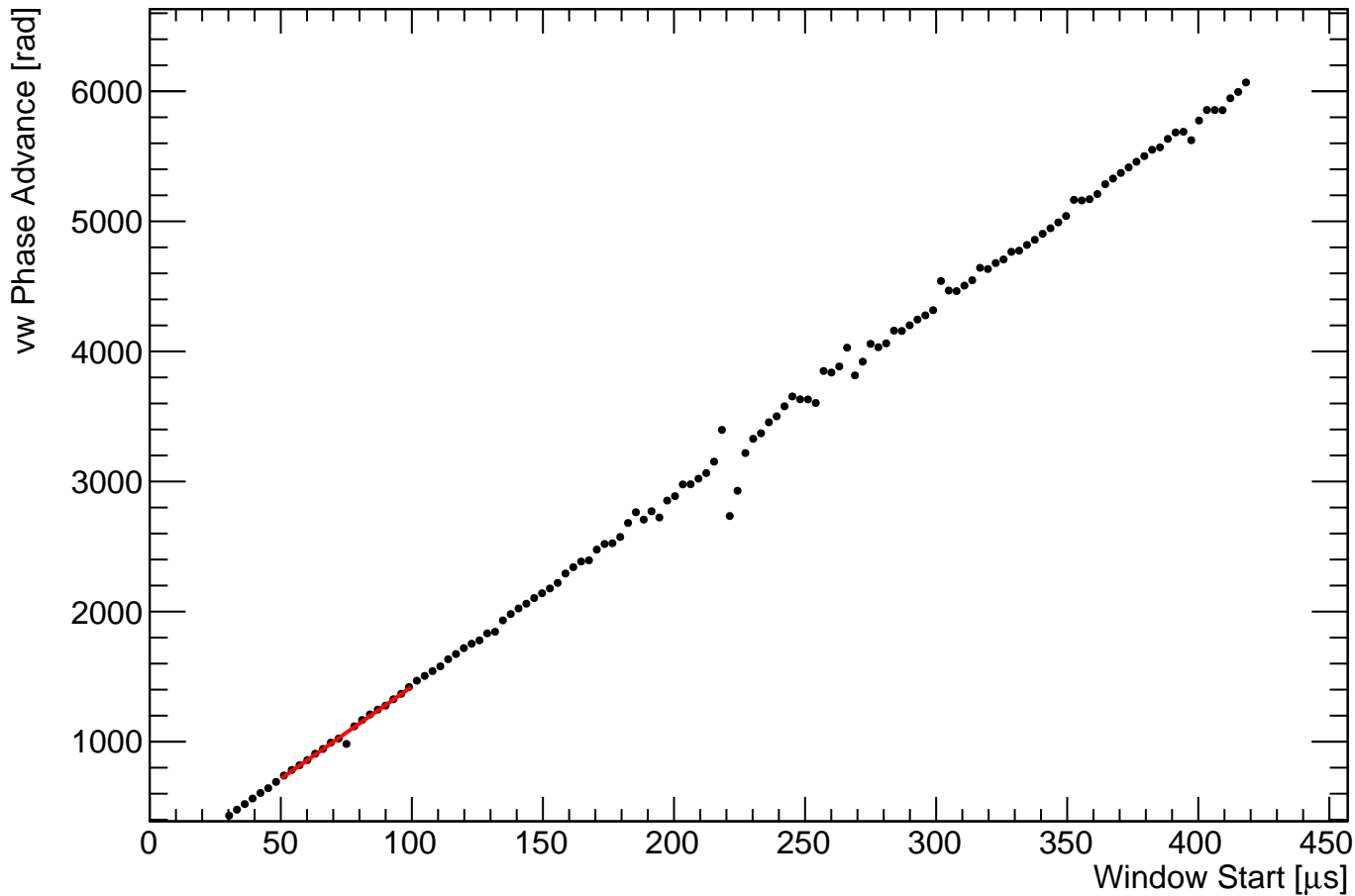


## 2CBO Phase Advance

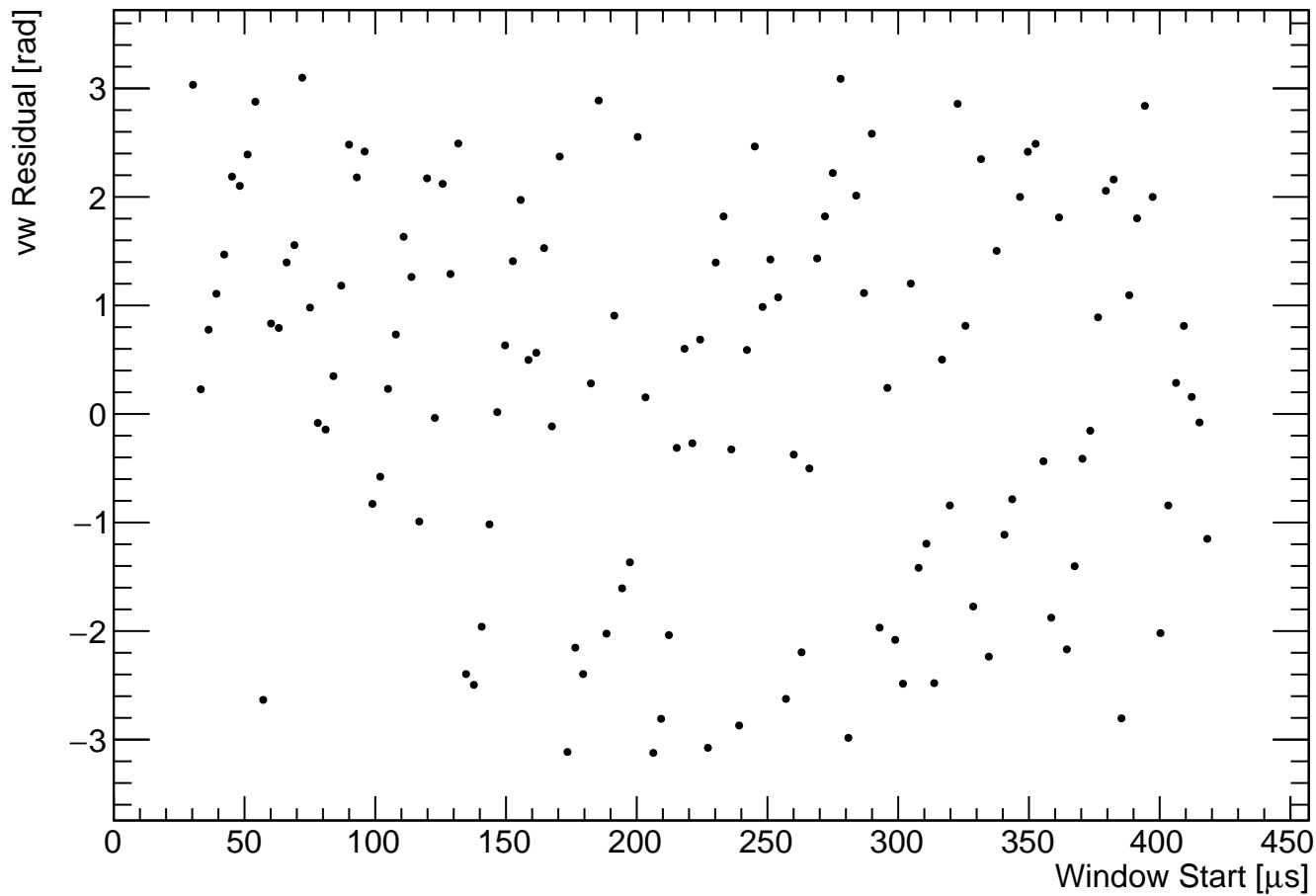




# vw Phase Advance



# vw Phase Advance Residual



# 2CBO Phase Advance Residual

