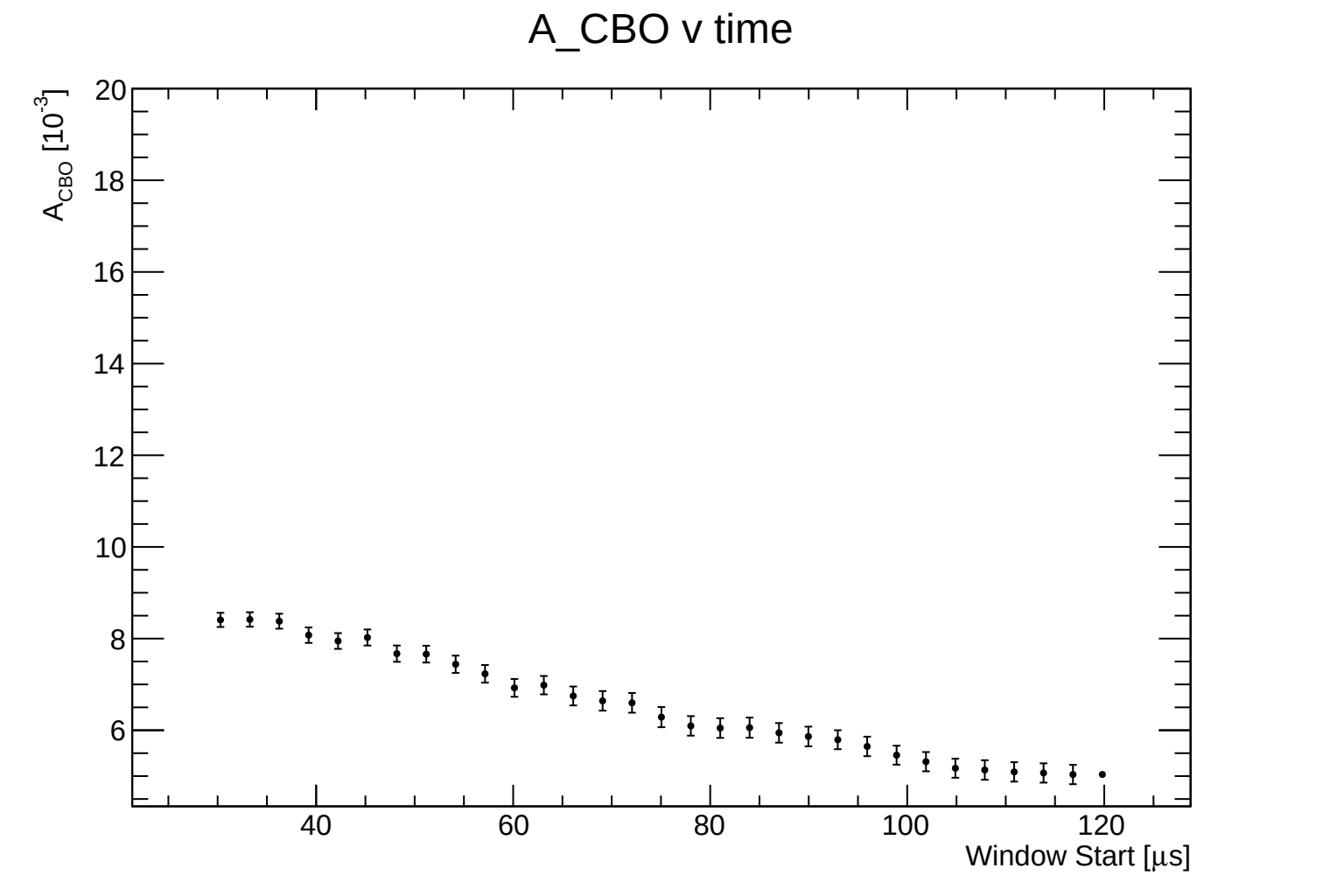
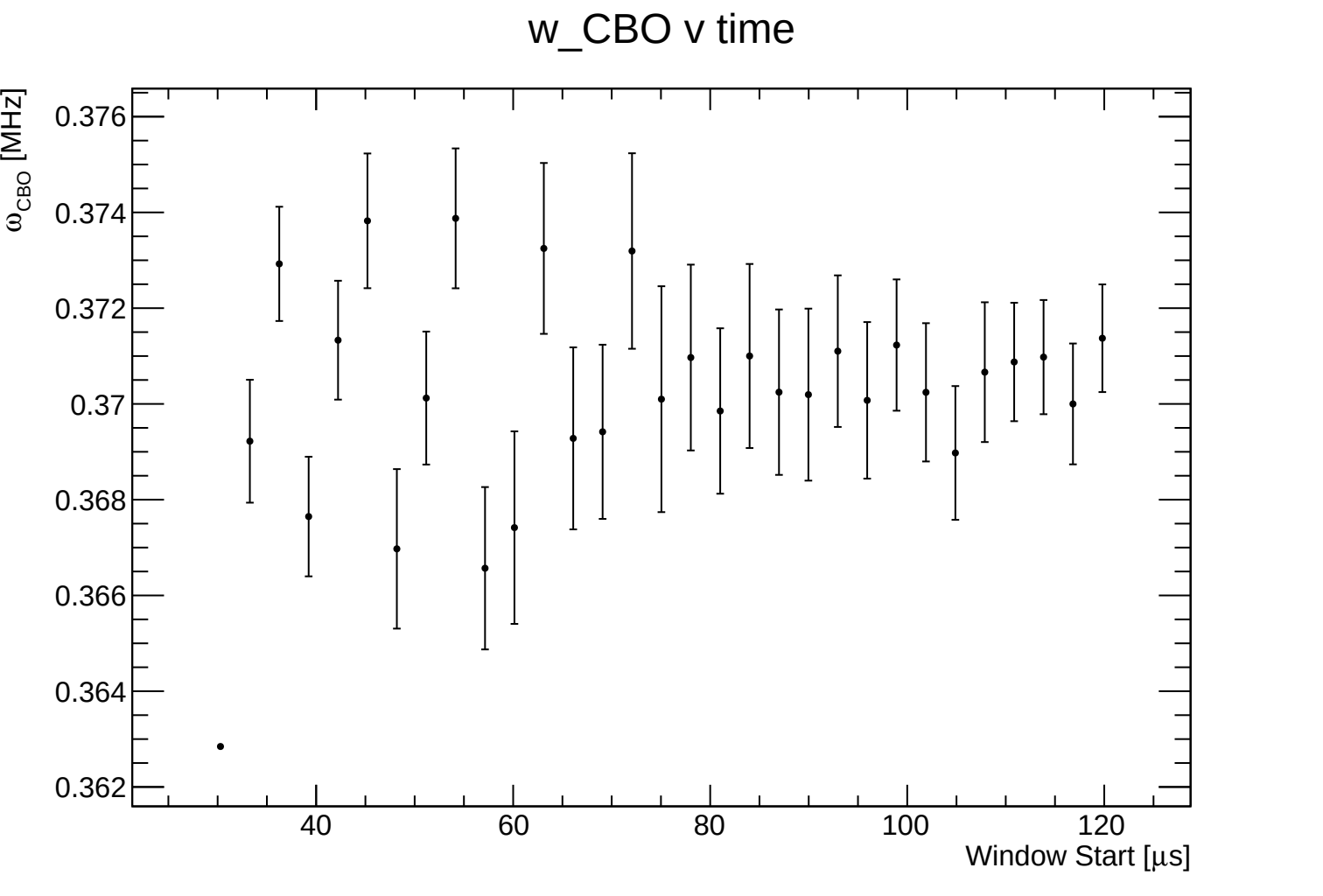
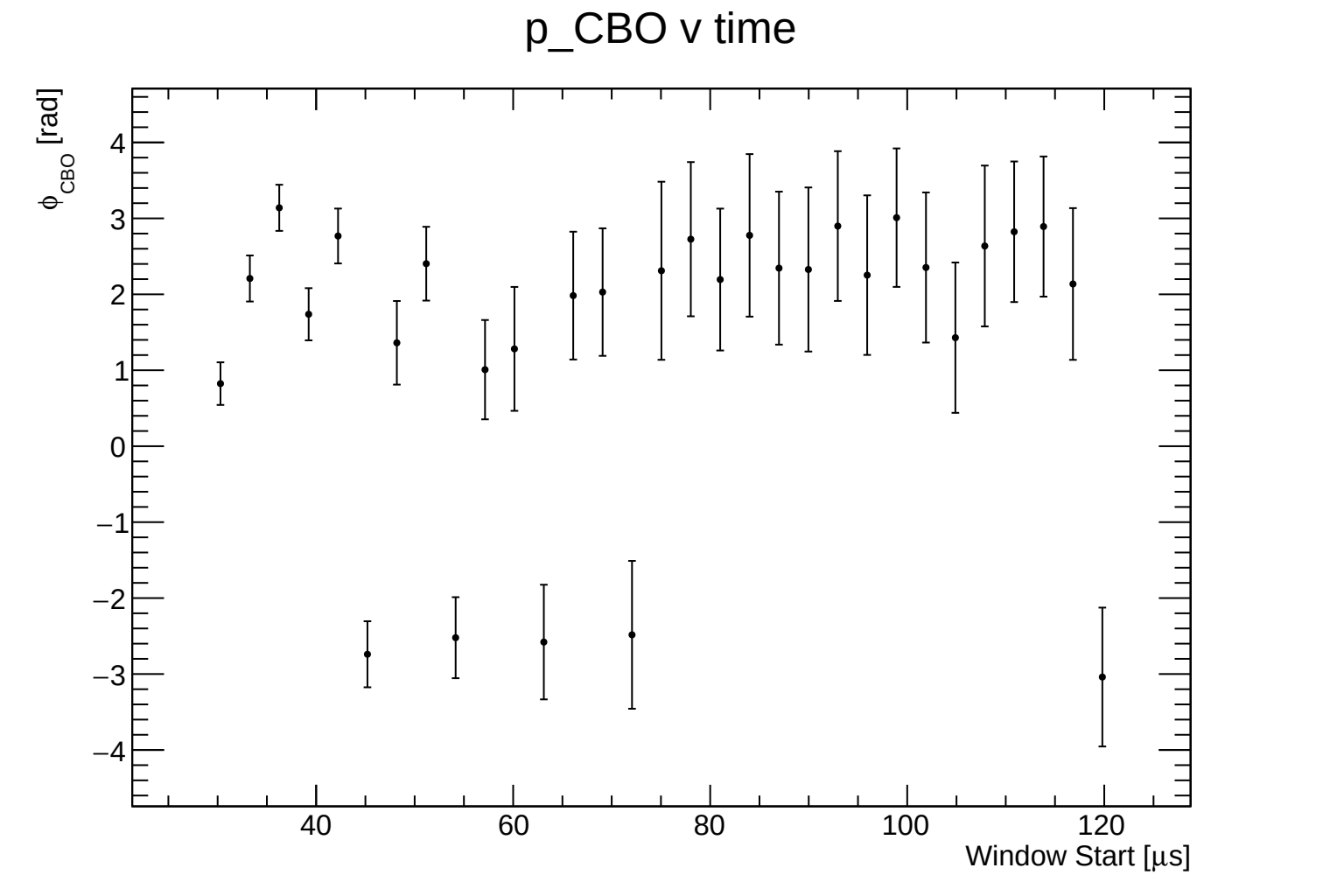
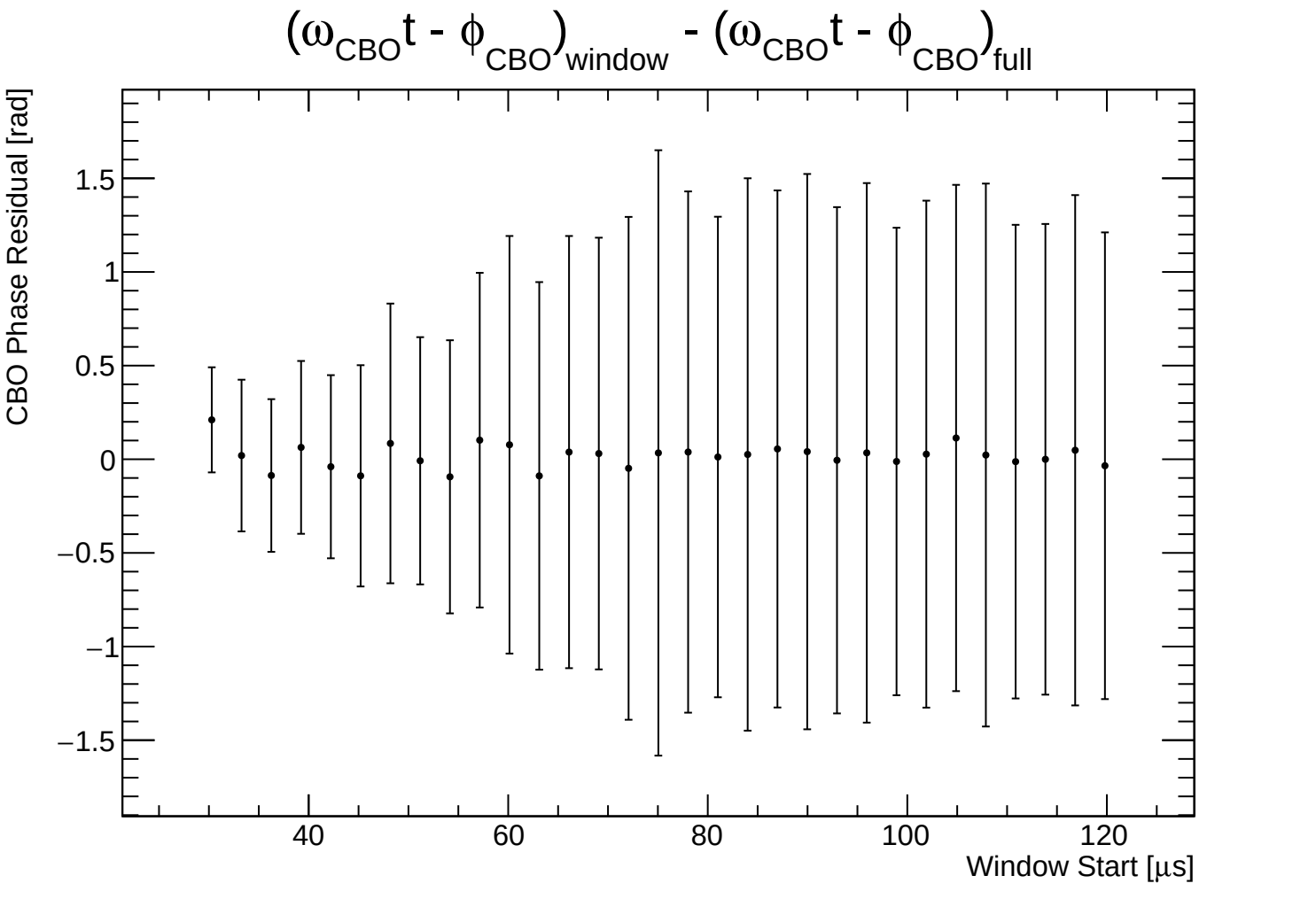
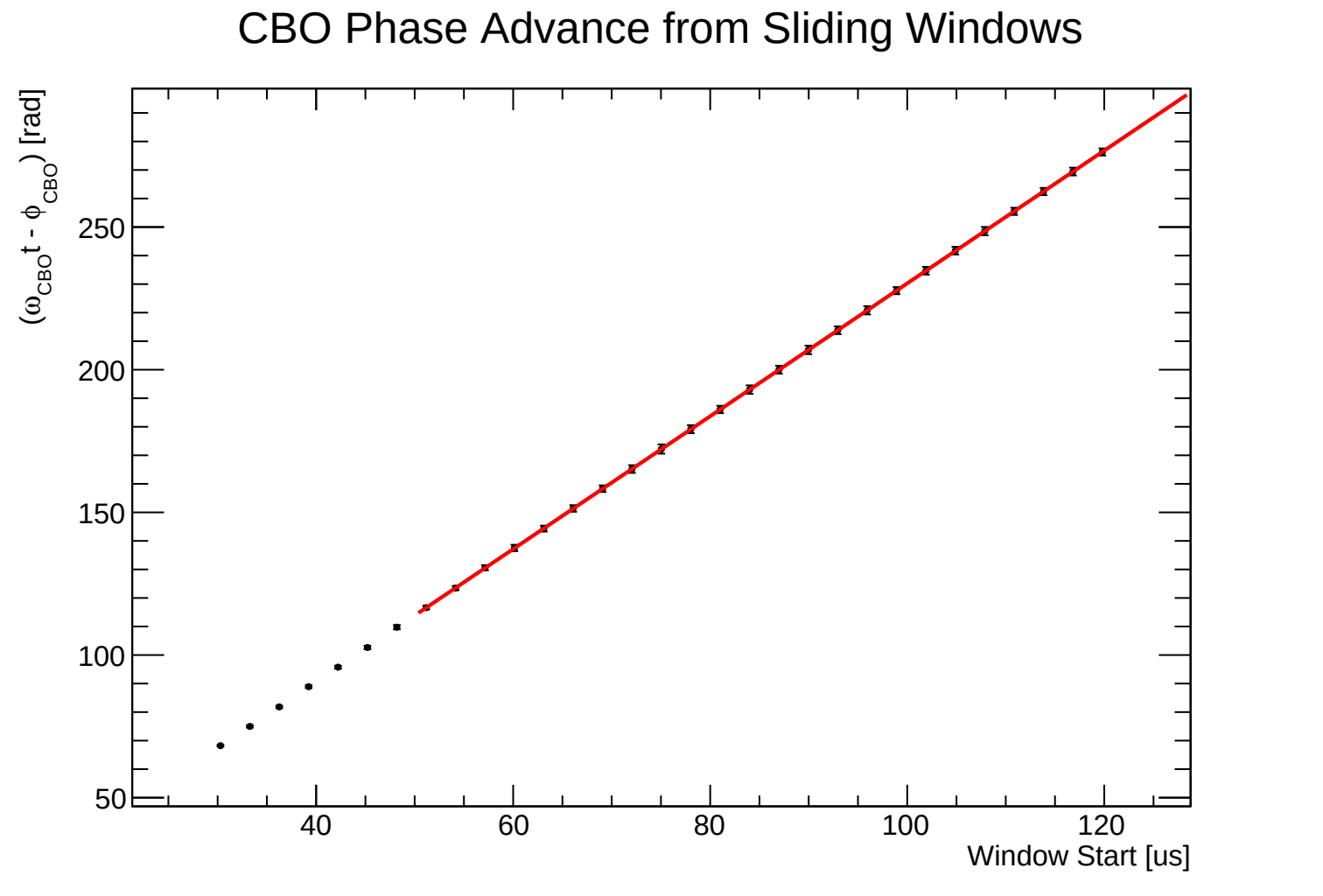
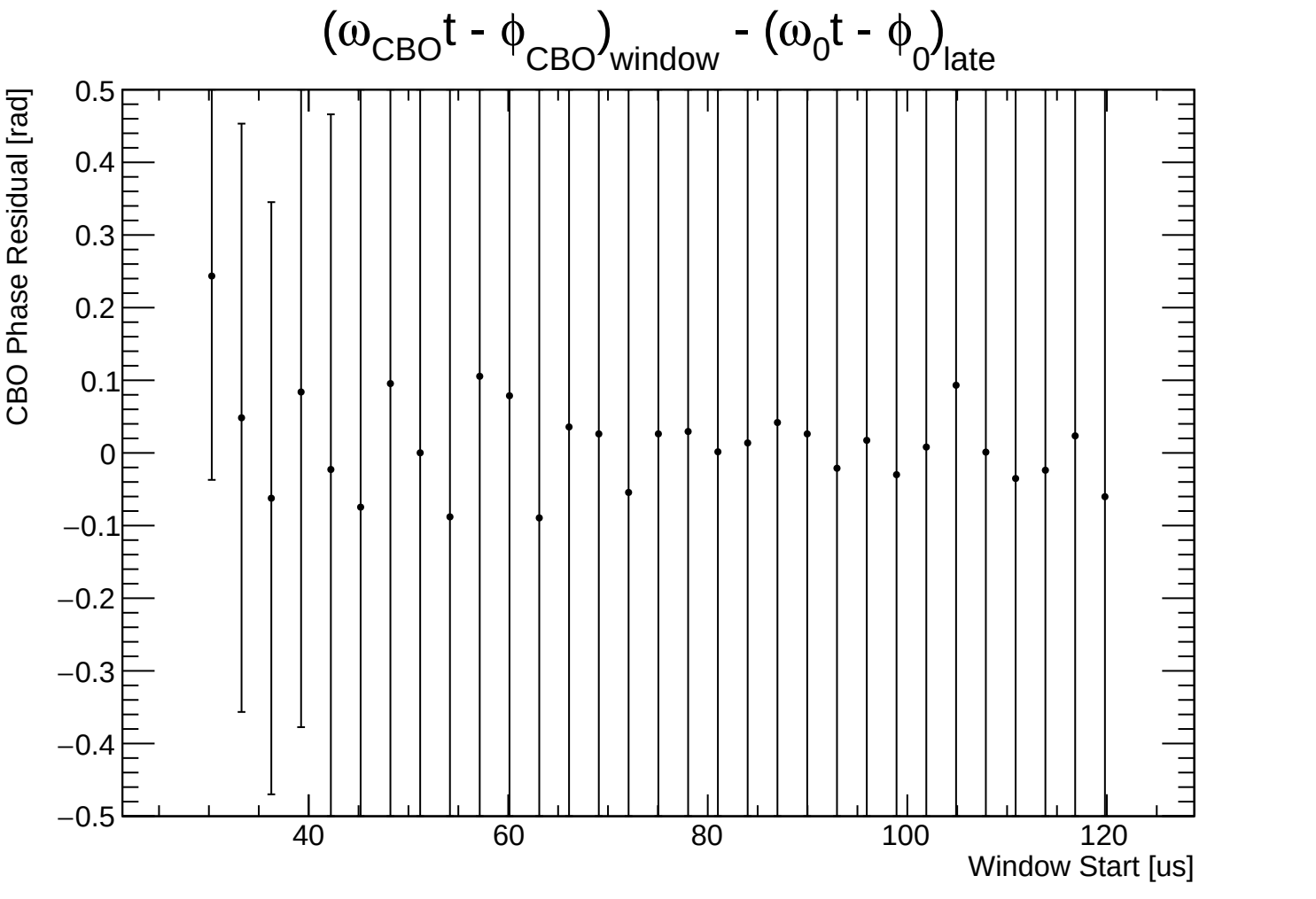

A_CBO v time
A_{CBO} [10^{-3}]
20
18
16
14
12
10
8
6
40
60
80
100
120
Window Start [μs]

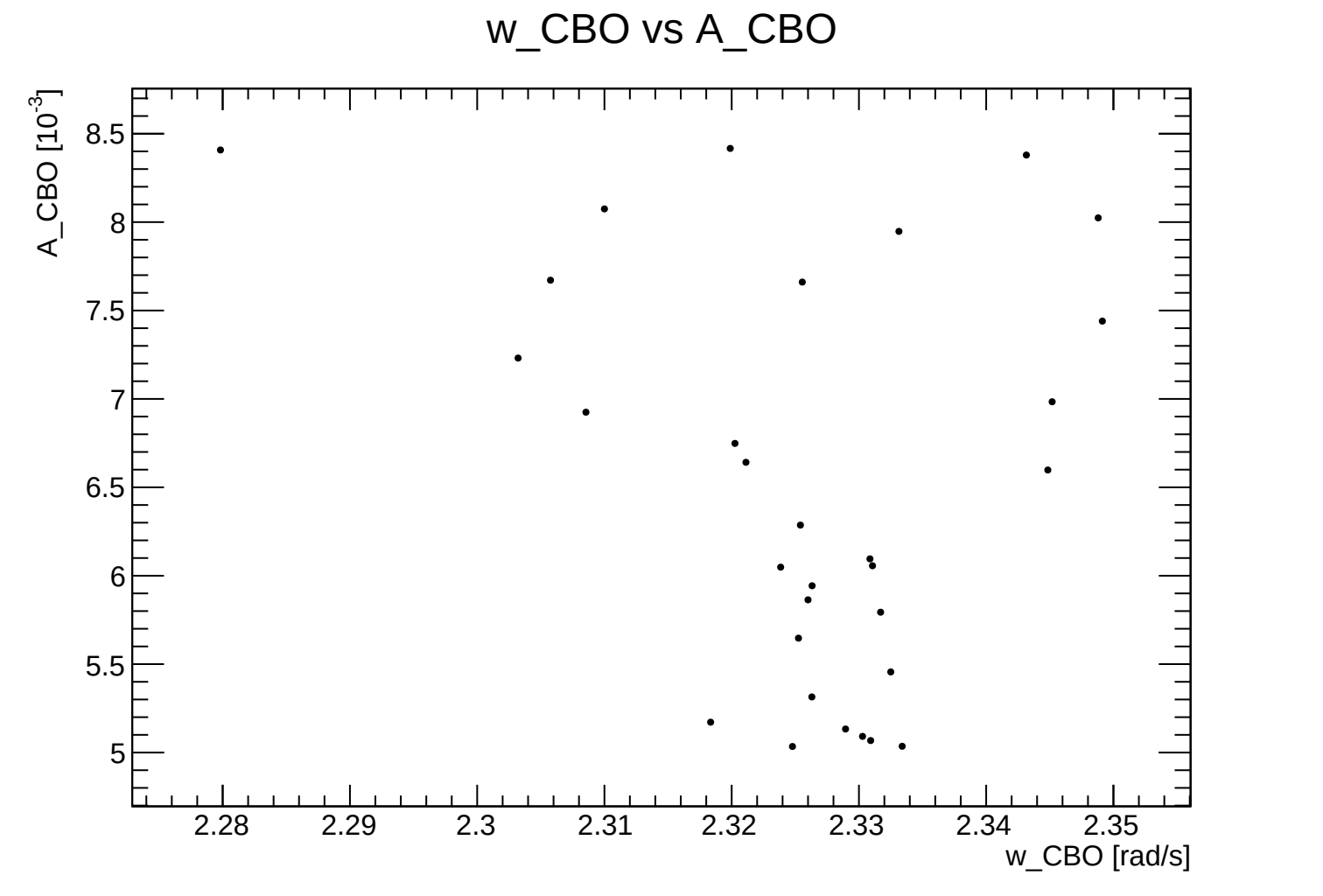

w_CBO v time
ω_{CBO} [MHz]
0.376
0.374
0.372
0.37
0.368
0.366
0.364
0.362
40
60
80
100
120
Window Start [μs]

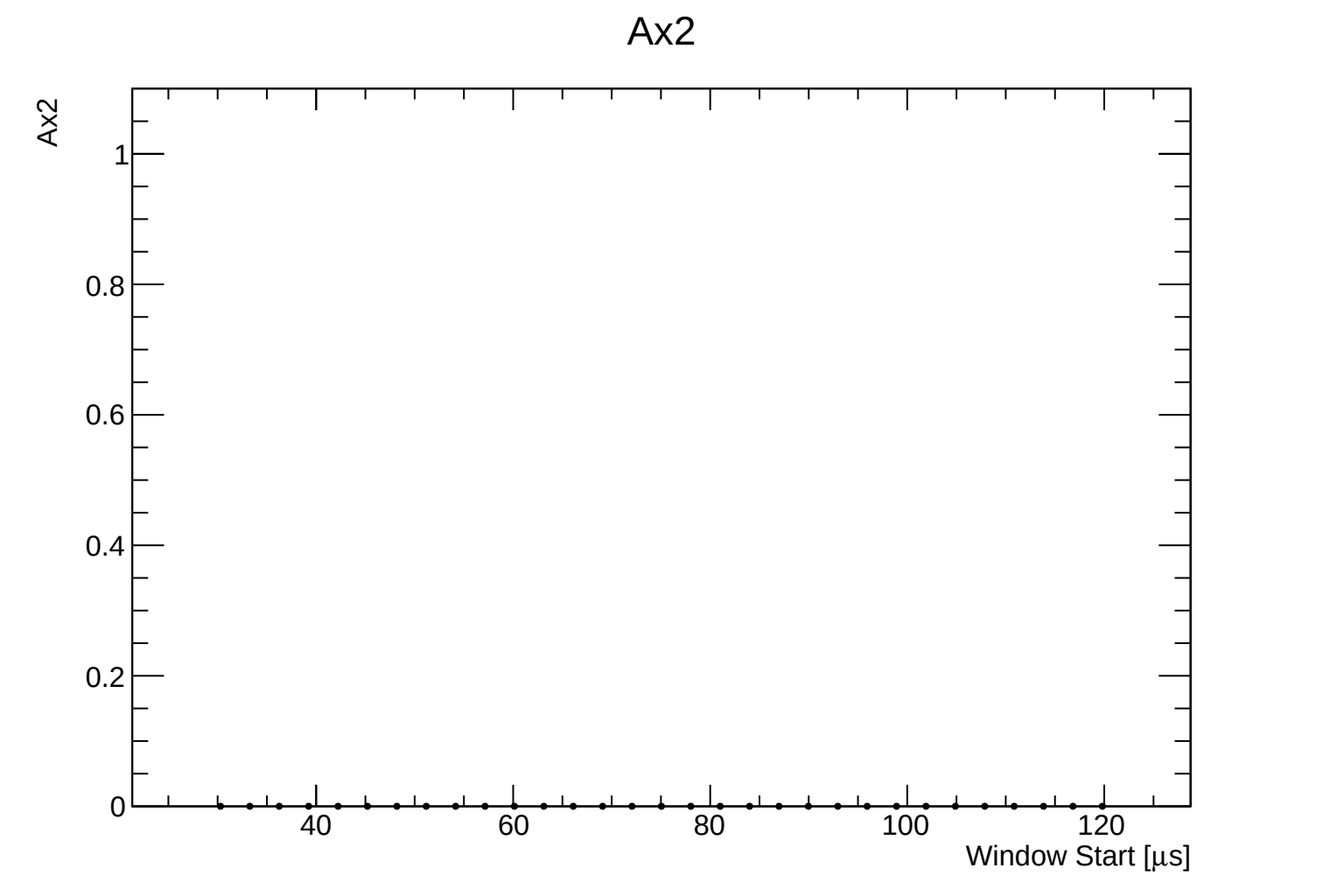

p_CBO v time
ϕ_{CBO} [rad]
4
3
2
1
0
−1
−2
−3
−4
40
60
80
100
120
Window Start [μs]

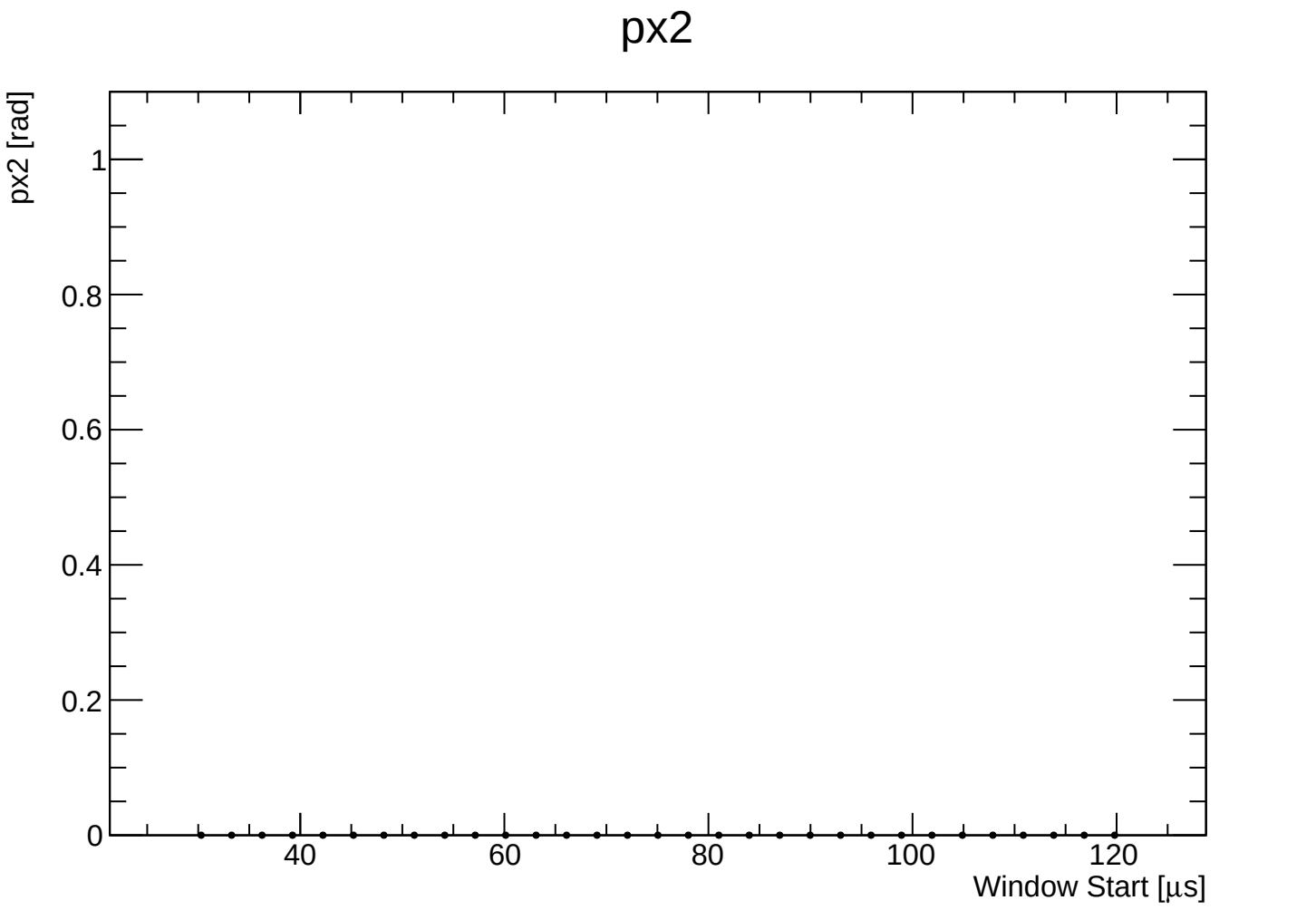

$(\omega_{CBO}t - \phi_{CBO})_{window} - (\omega_{CBO}t - \phi_{CBO})_{full}$
CBO Phase Residual [rad]
1.5
1
0.5
0
−0.5
−1
−1.5
40
60
80
100
120
Window Start [μs]

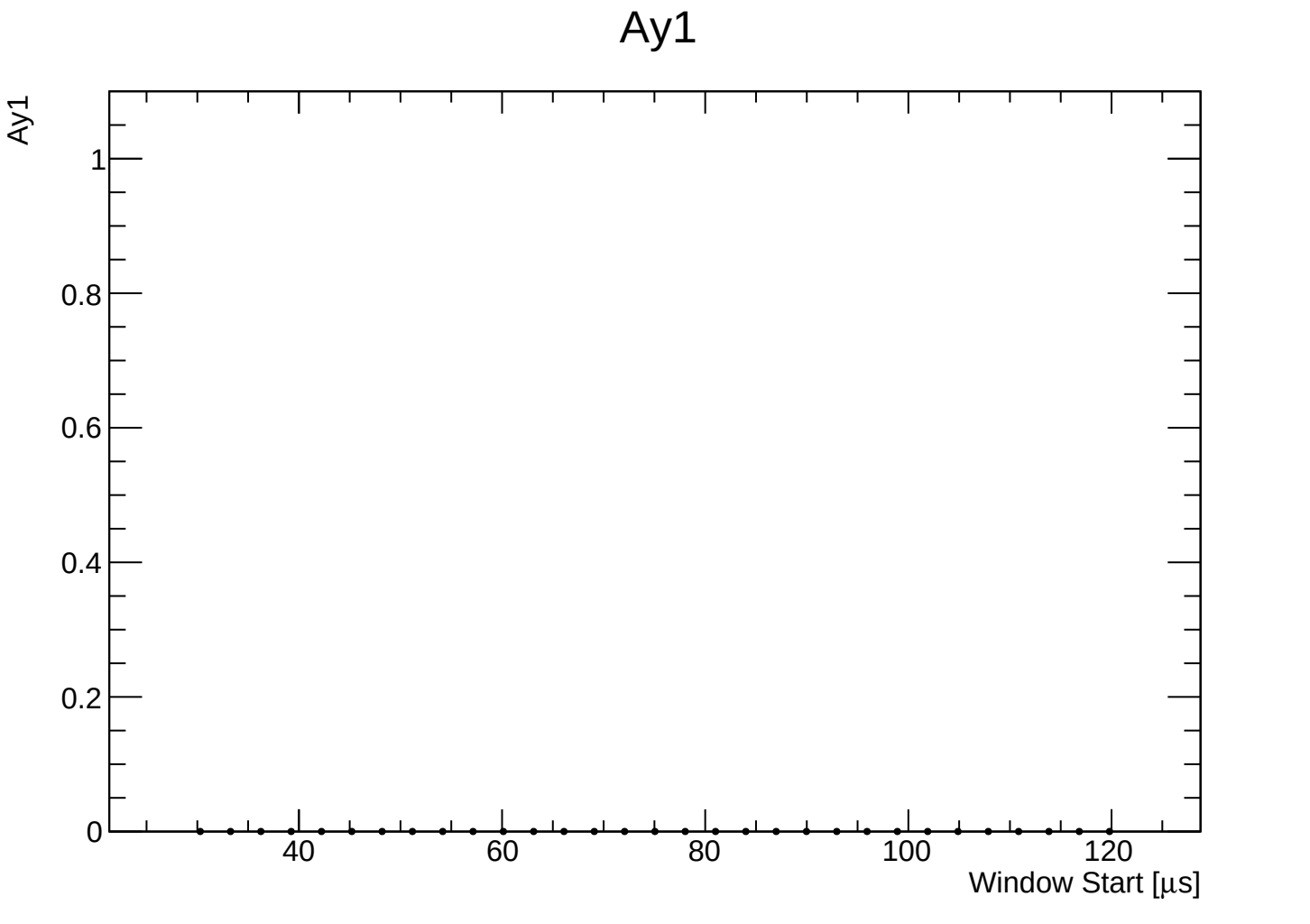

CBO Phase Advance from Sliding Windows
$(\omega_{CBO}t - \phi_{CBO})$ [rad]
250
200
150
100
50
40
60
80
100
120
Window Start [us]

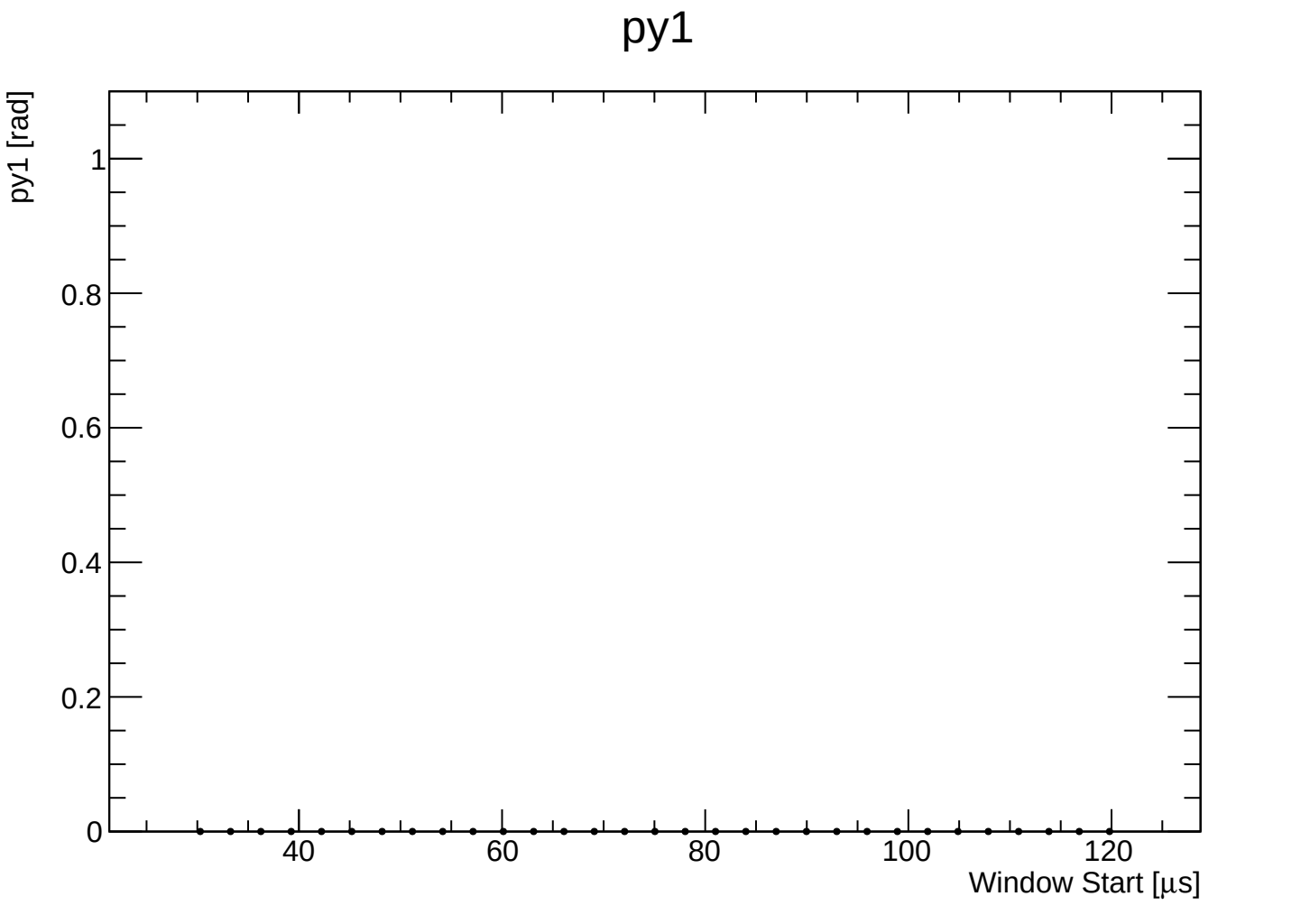

$(\omega_{CBO}t - \phi_{CBO})_{window} - (\omega_0 t - \phi_0)_{late}$
CBO Phase Residual [rad]
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
40
60
80
100
120
Window Start [us]

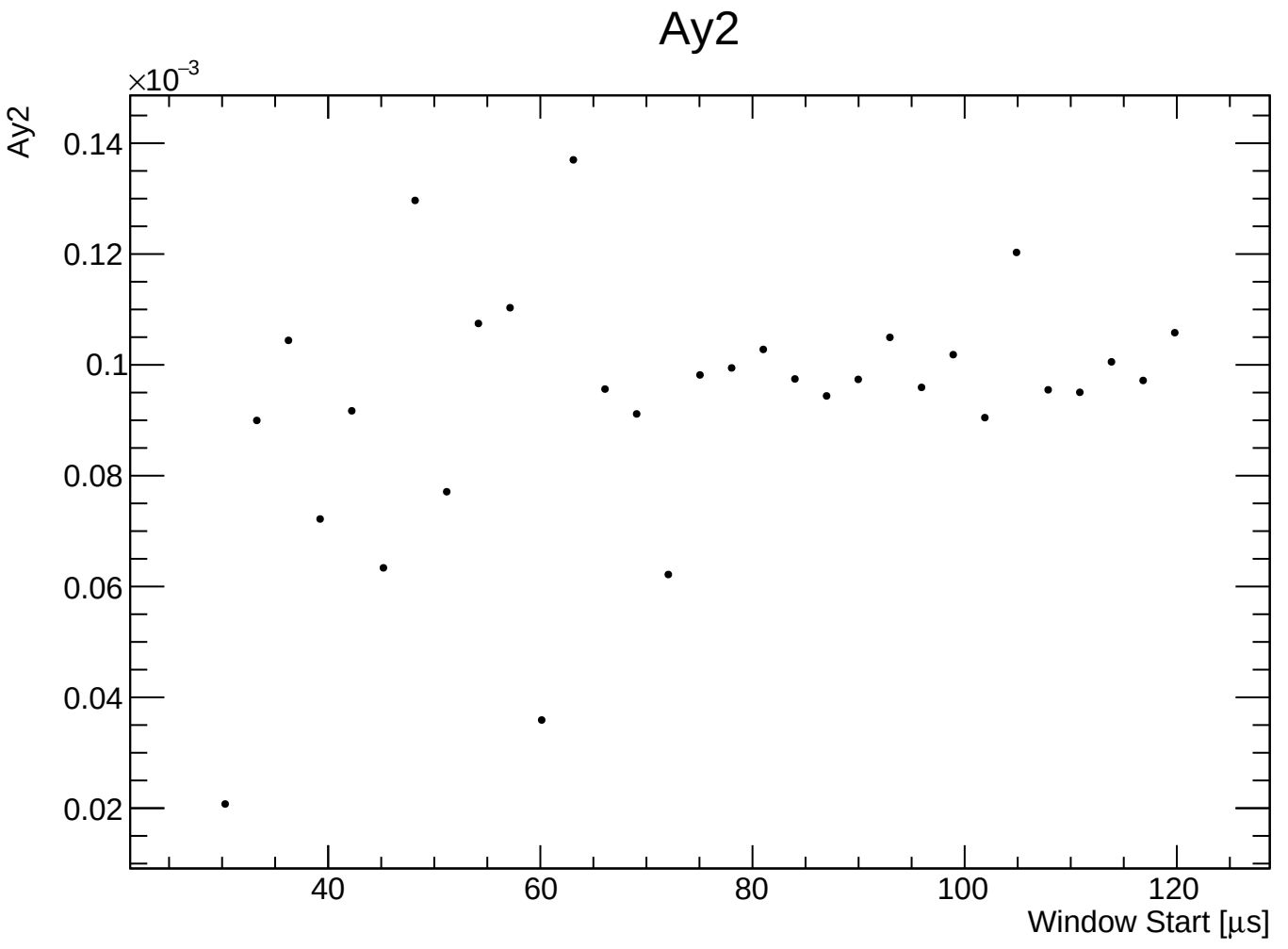

w_CBO vs A_CBO
A_CBO [10^-3]
8.5
8
7.5
7
6.5
6
5.5
5
2.28
2.29
2.3
2.31
2.32
2.33
2.34
2.35
w_CBO [rad/s]

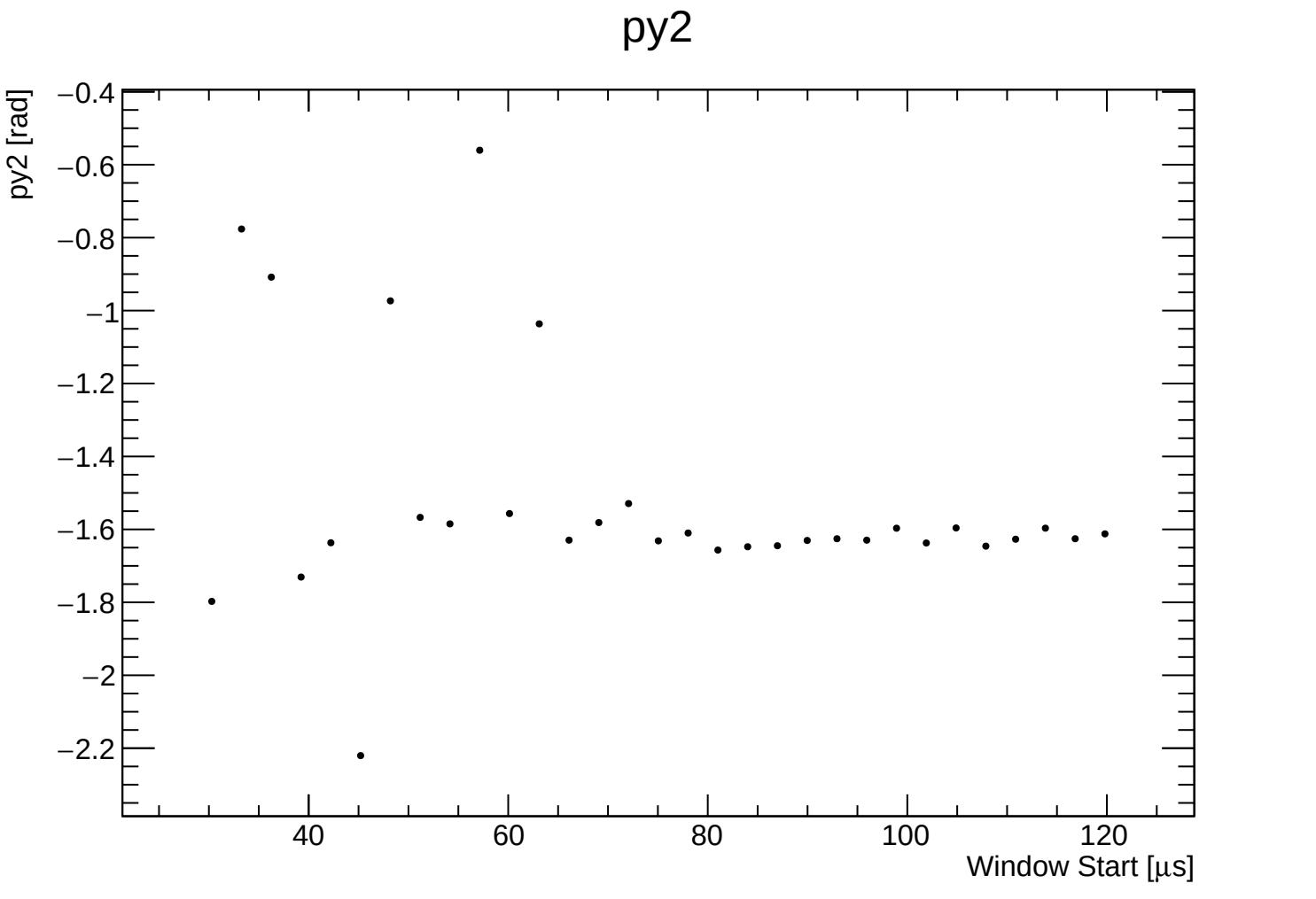

Ax2
Ax2
1
0.8
0.6
0.4
0.2
0
40
60
80
100
120
Window Start [μs]

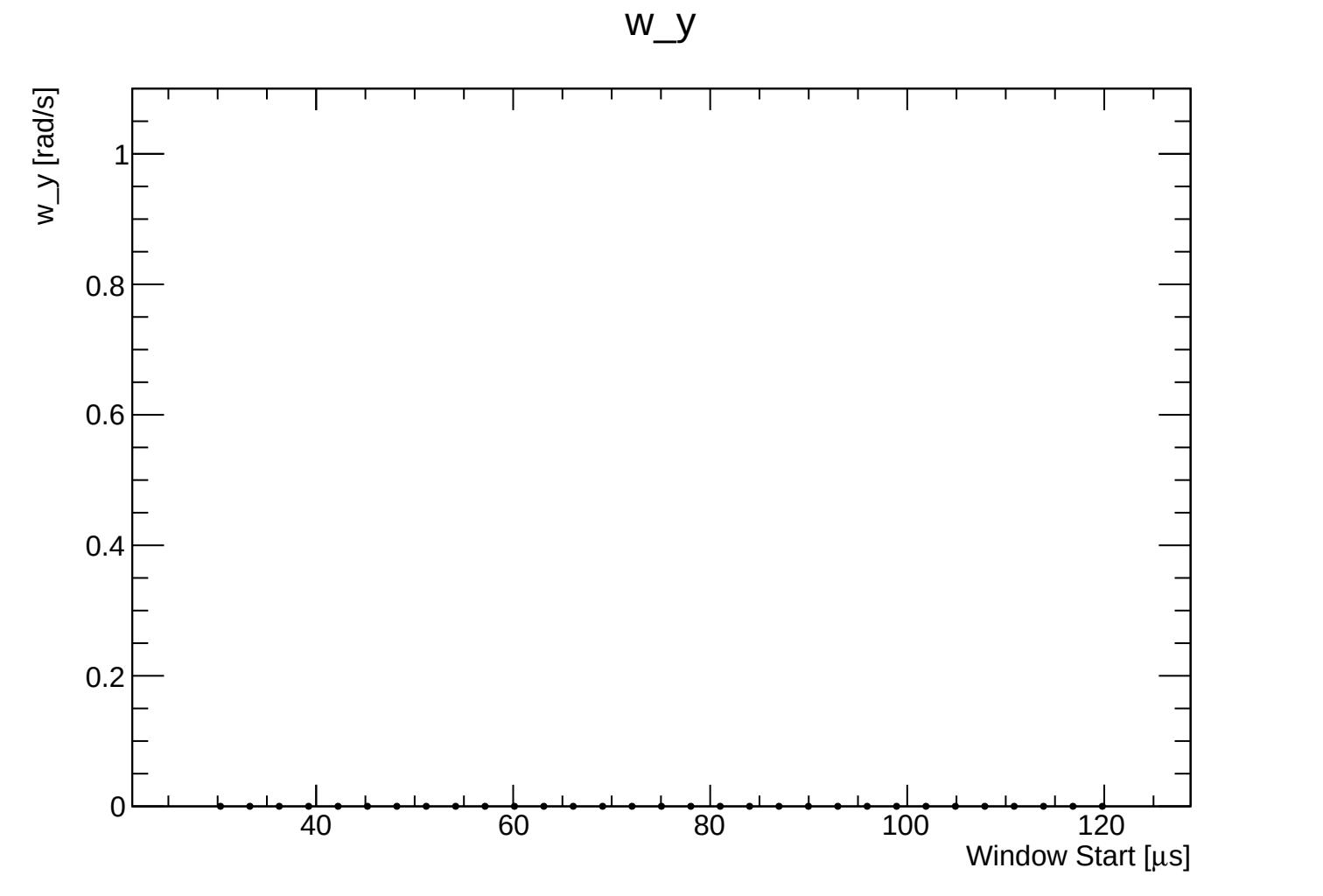

px2
px2 [rad]
1
0.8
0.6
0.4
0.2
0
40
60
80
100
120
Window Start [μs]

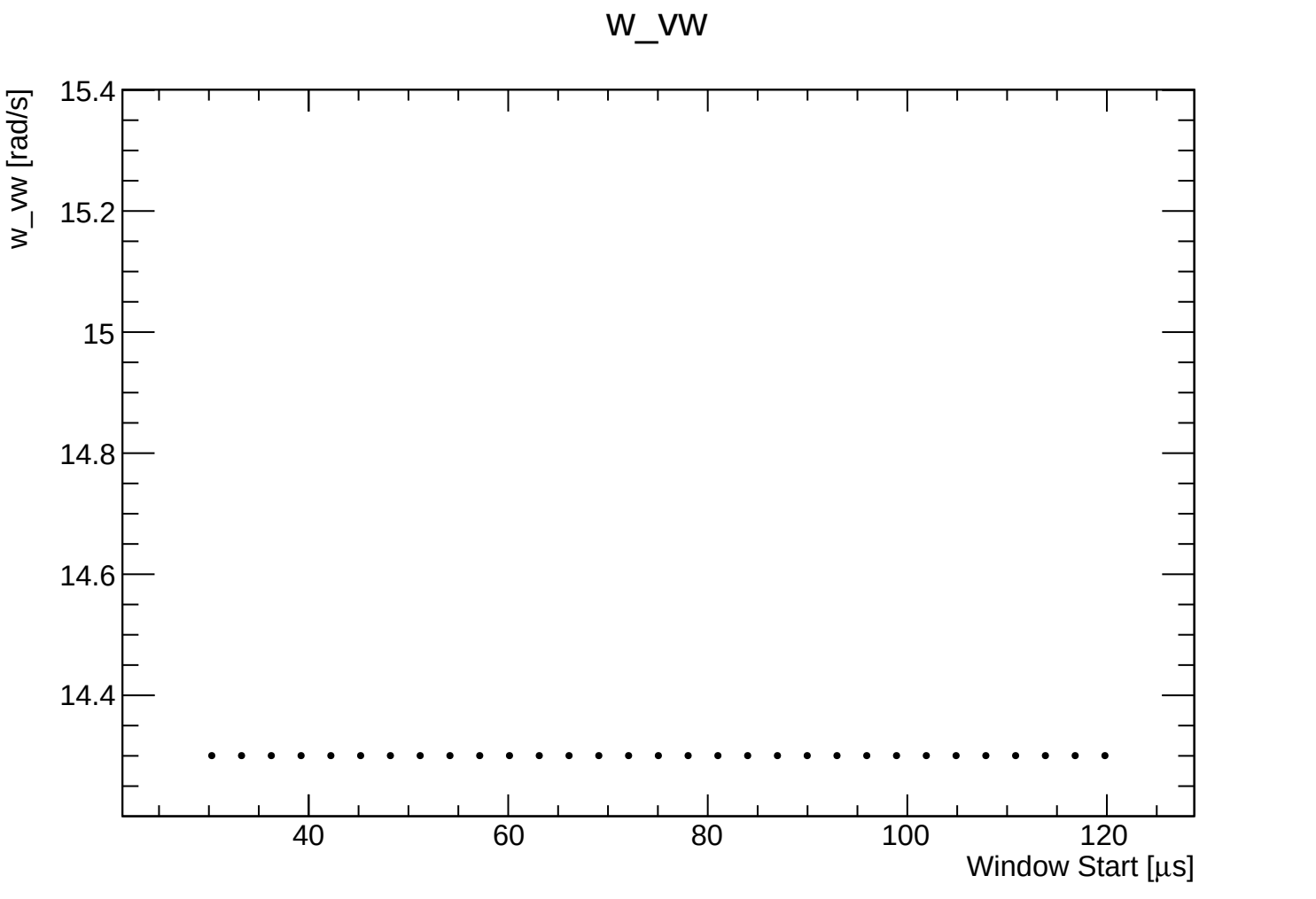

Ay1
Ay1
1
0.8
0.6
0.4
0.2
0
40
60
80
100
120
Window Start [μs]


py1
py1 [rad]
1
0.8
0.6
0.4
0.2
0
40
60
80
100
120
Window Start [μs]


Ay2
×10⁻³
Ay2
0.14
0.12
0.1
0.08
0.06
0.04
0.02
40
60
80
100
120
Window Start [μs]


py2
py2 [rad]
−0.4
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
40
60
80
100
120
Window Start [μs]


w_y
w_y [rad/s]
1
0.8
0.6
0.4
0.2
0
40
60
80
100
120
Window Start [μs]


W_VW
w_vw [rad/s]
15.4
15.2
15
14.8
14.6
14.4
40
60
80
100
120
Window Start [μs]