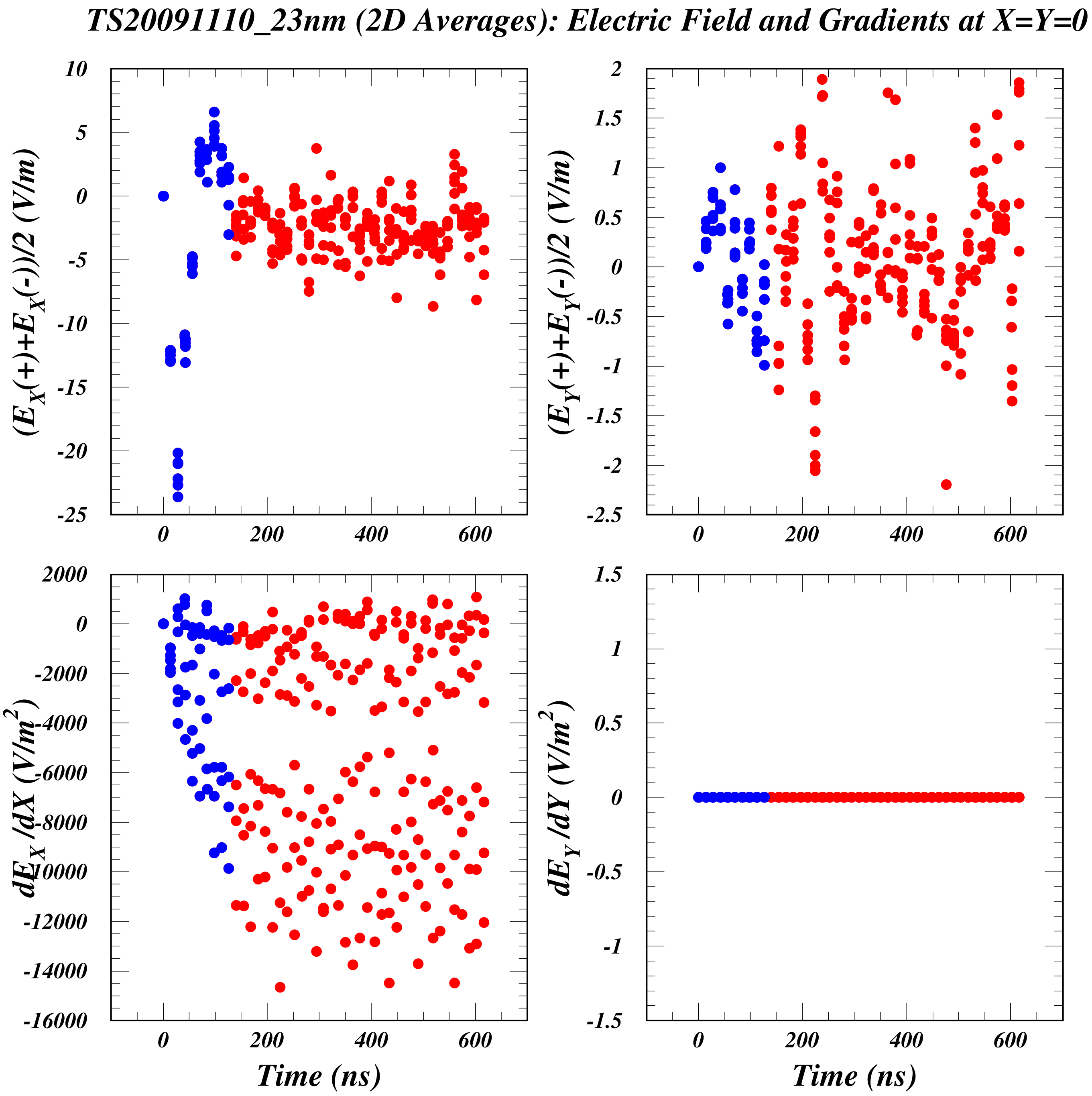
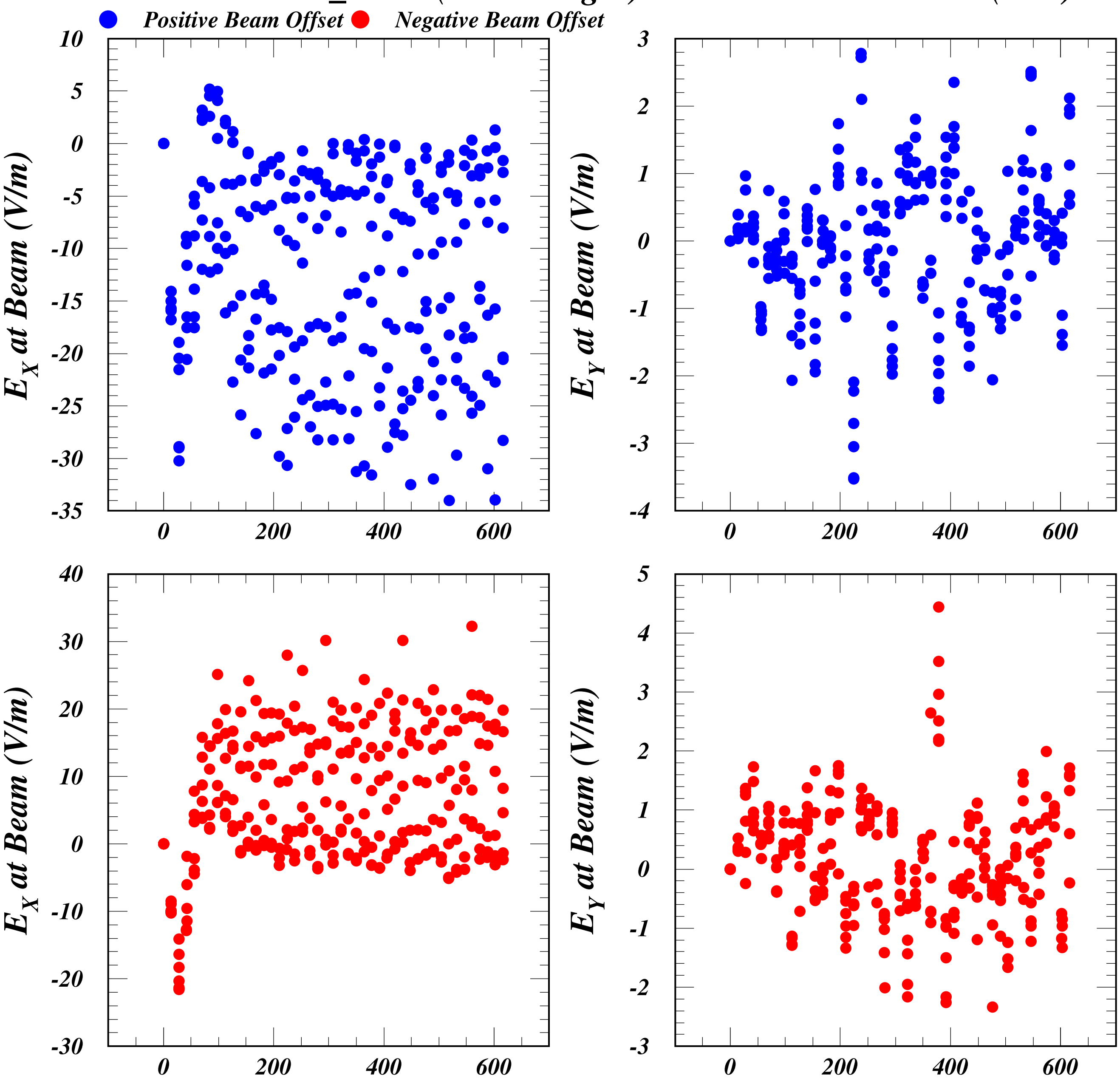
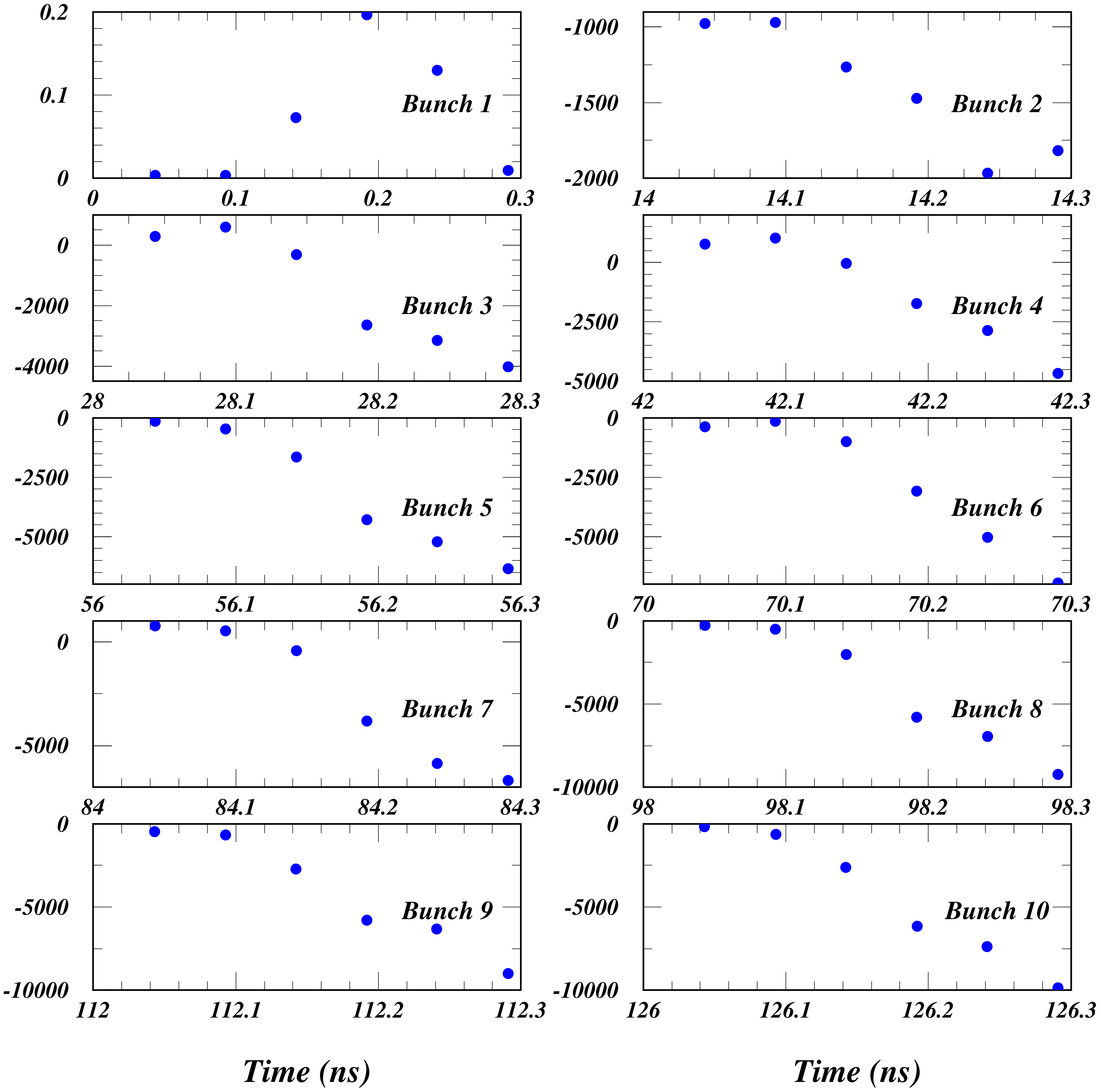


TS20091110_23nm (2D Averages): Electric Field and Gradients at X=Y=0
$(E_X(+)+E_X(-))/2$ (V/m)
$(E_Y(+)+E_Y(-))/2$ (V/m)
dE_X/dX (V/m^2)
dE_Y/dY (V/m^2)
Time (ns)
Time (ns)

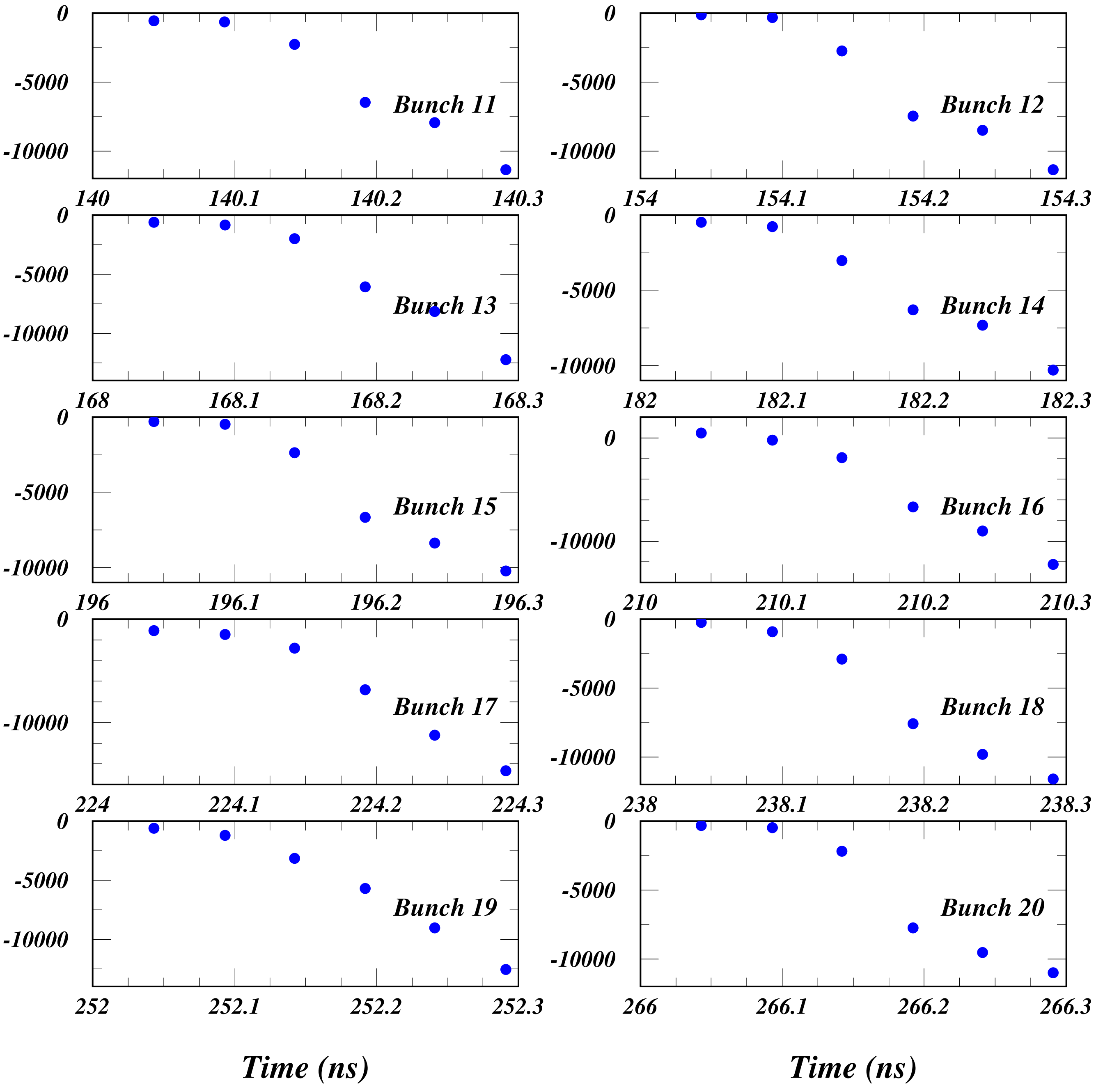
TS20091110_23nm (2D Averages): Electric Field at Beam (V/m)



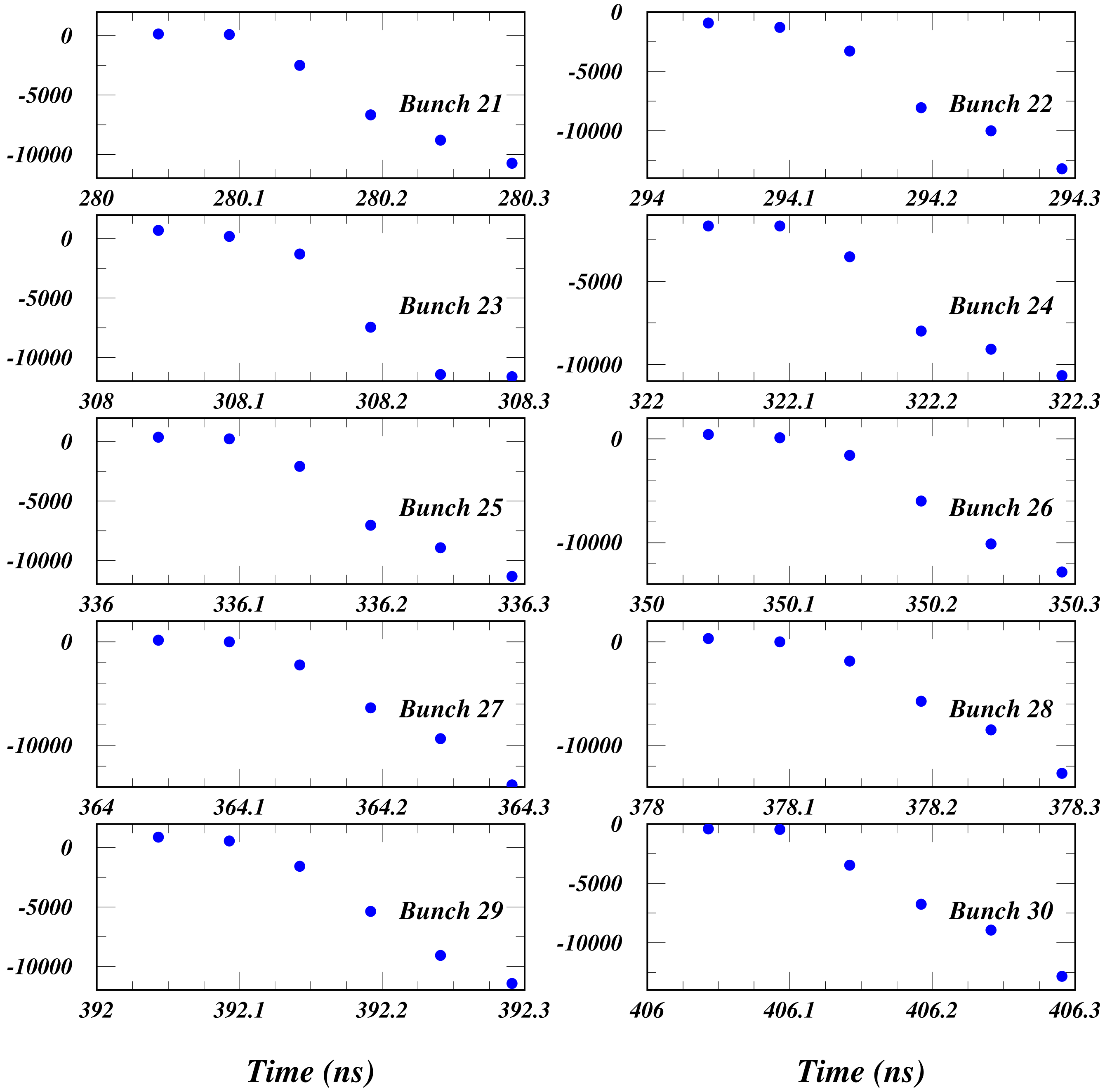
TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)

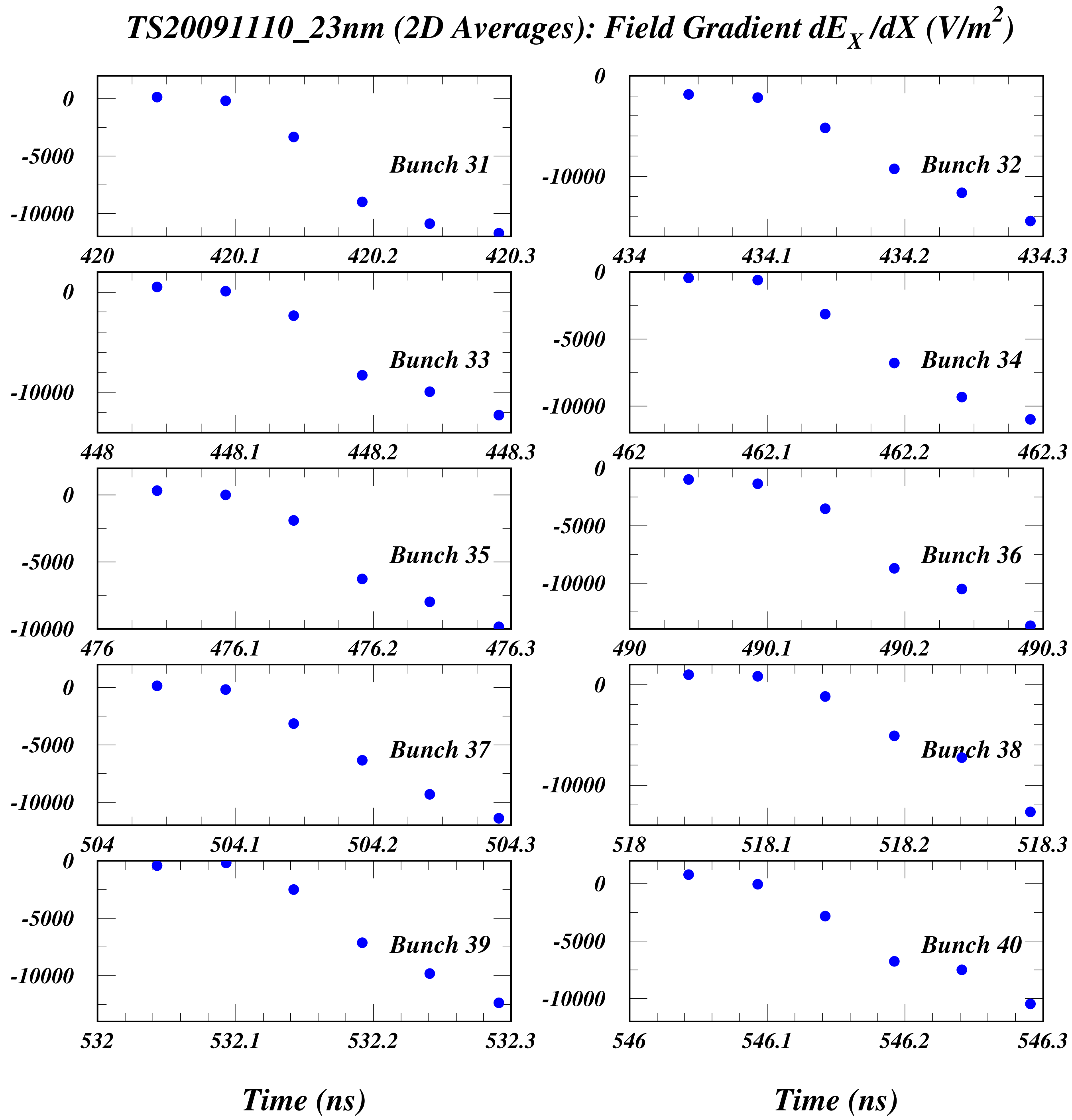


TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)

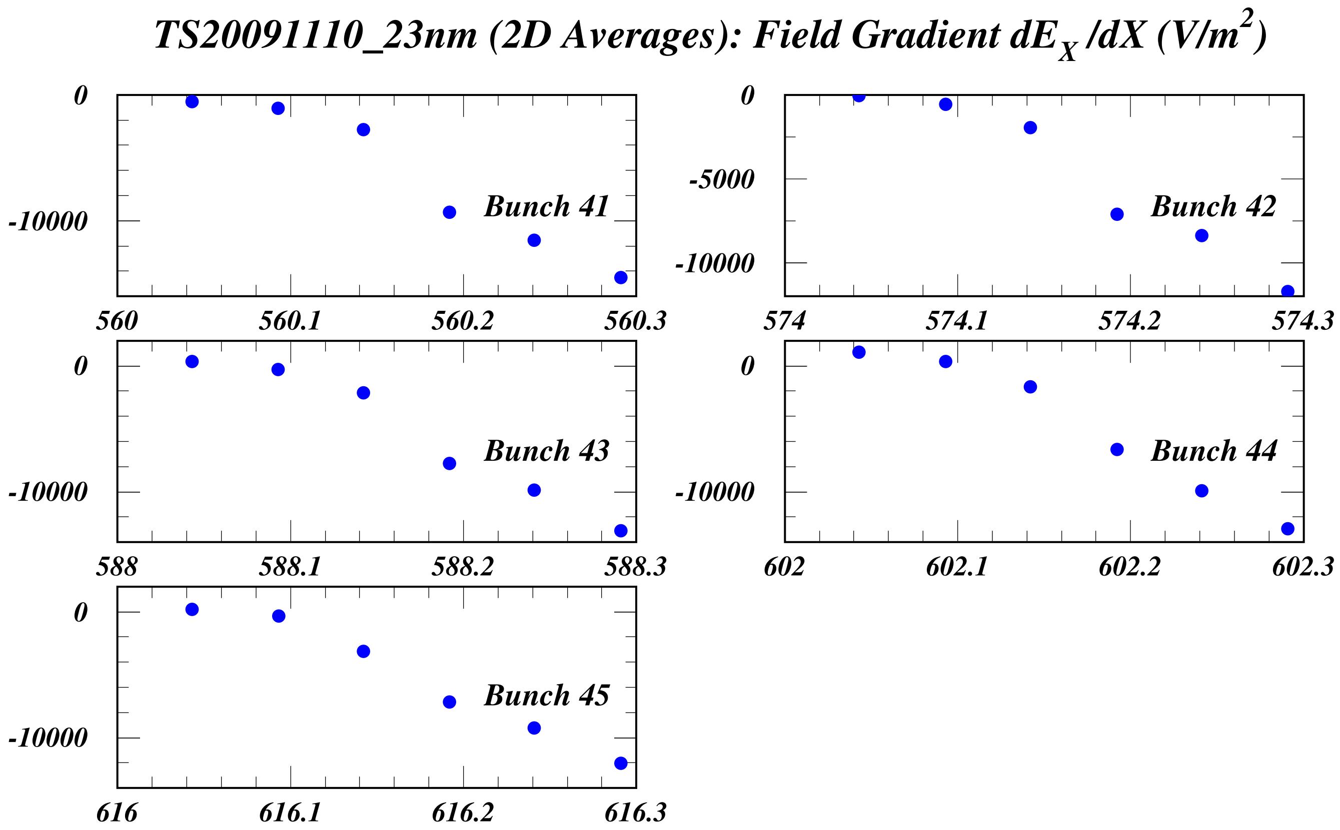


TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)

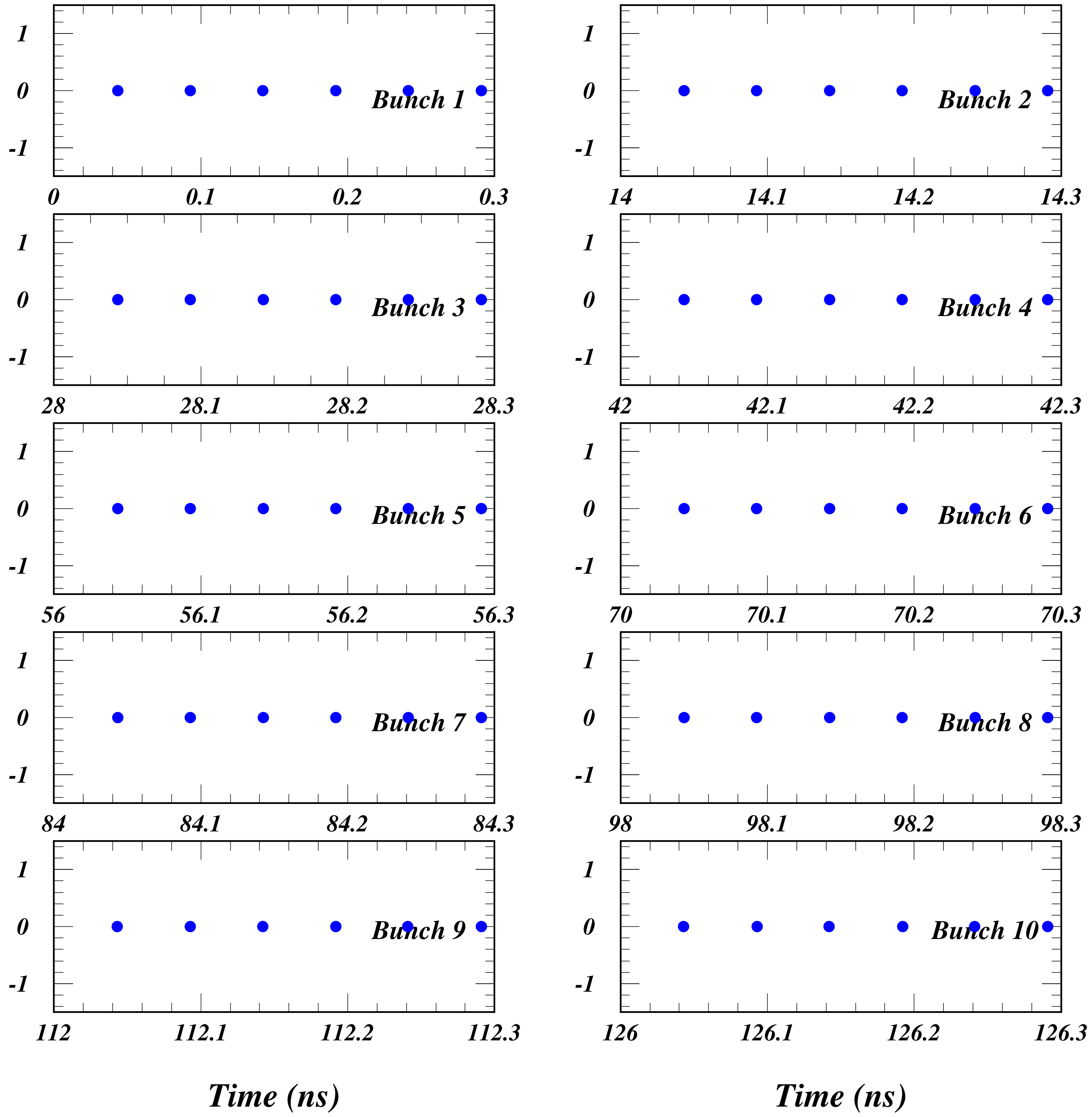


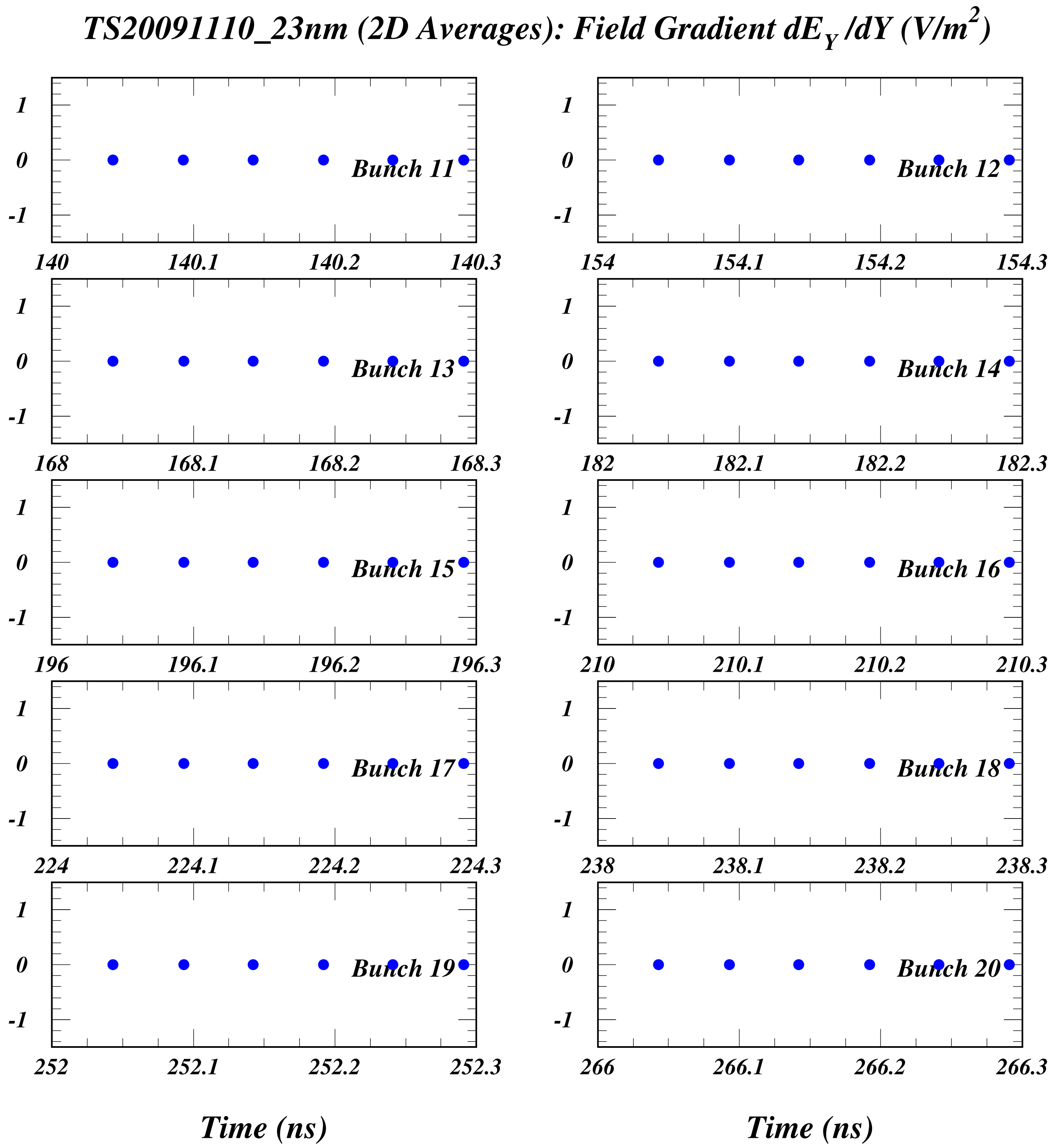


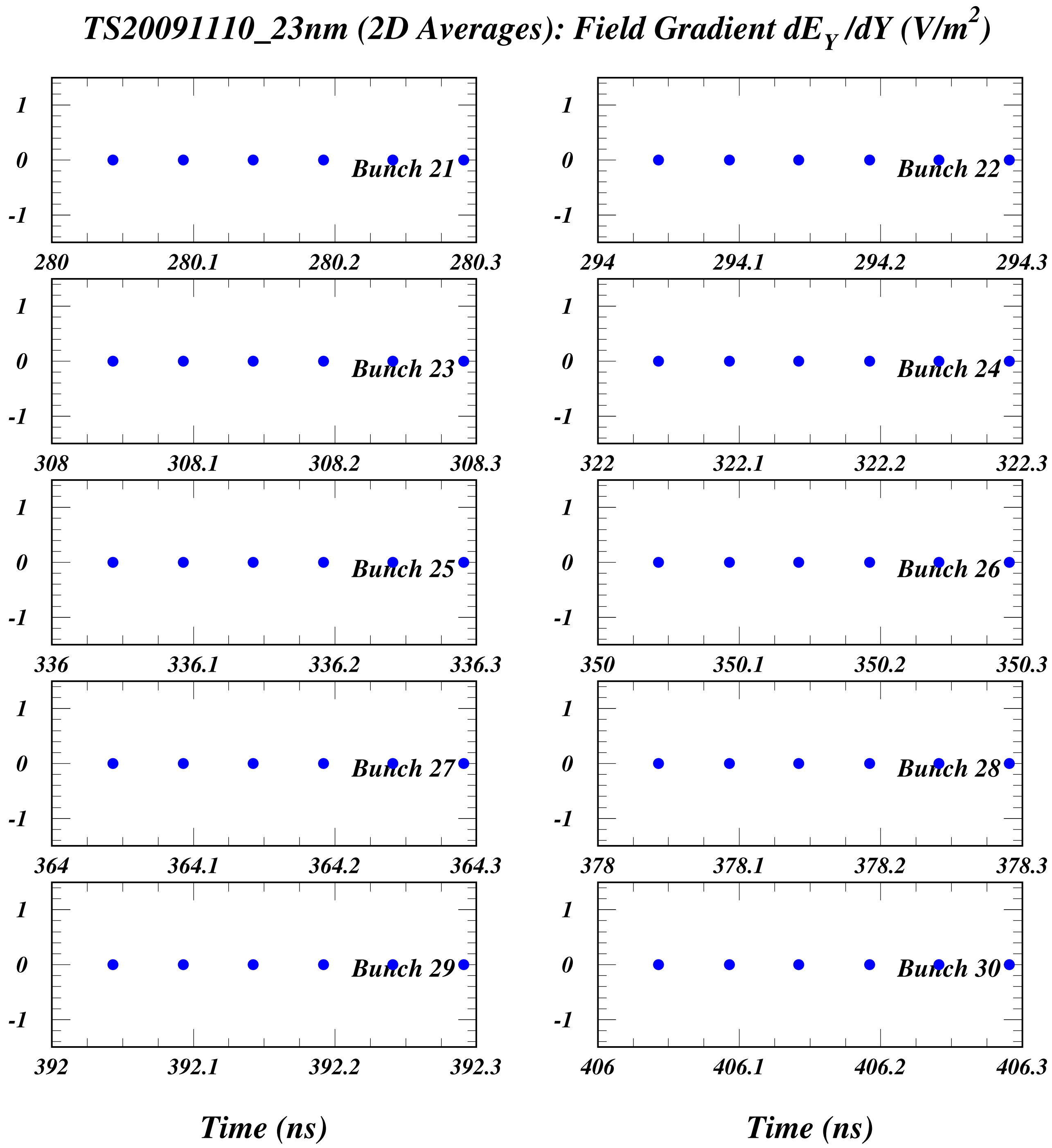
TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)
Bunch 31
Bunch 32
Bunch 33
Bunch 34
Bunch 35
Bunch 36
Bunch 37
Bunch 38
Bunch 39
Bunch 40
Time (ns)
Time (ns)


TS20091110_23nm (2D Averages): Field Gradient dE_X /dX (V/m^2)
0
-10000
Bunch 41
560
560.1
560.2
560.3
0
-5000
-10000
Bunch 42
574
574.1
574.2
574.3
0
-10000
Bunch 43
588
588.1
588.2
588.3
0
-10000
Bunch 44
602
602.1
602.2
602.3
0
-10000
Bunch 45
616
616.1
616.2
616.3

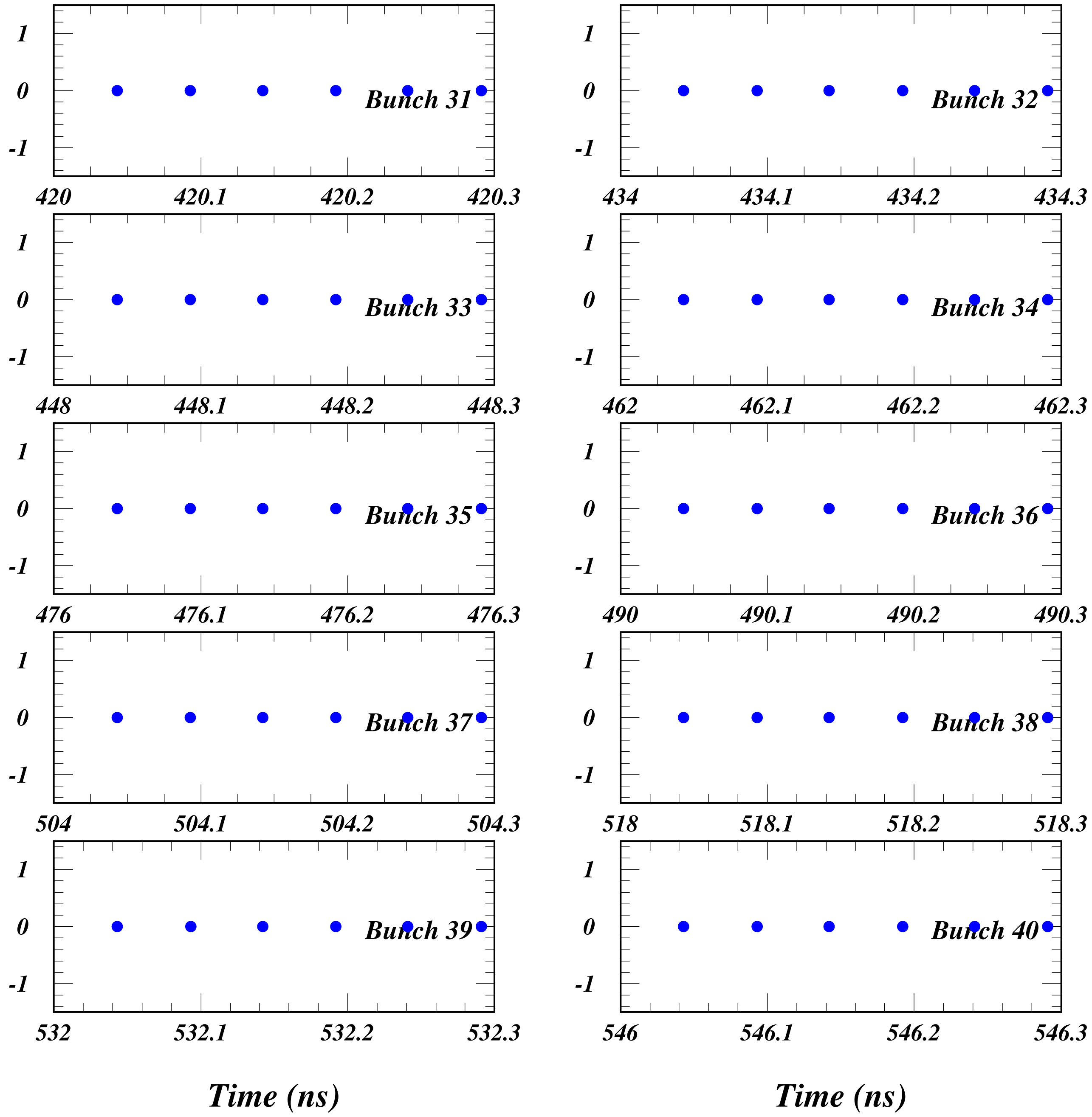
TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)



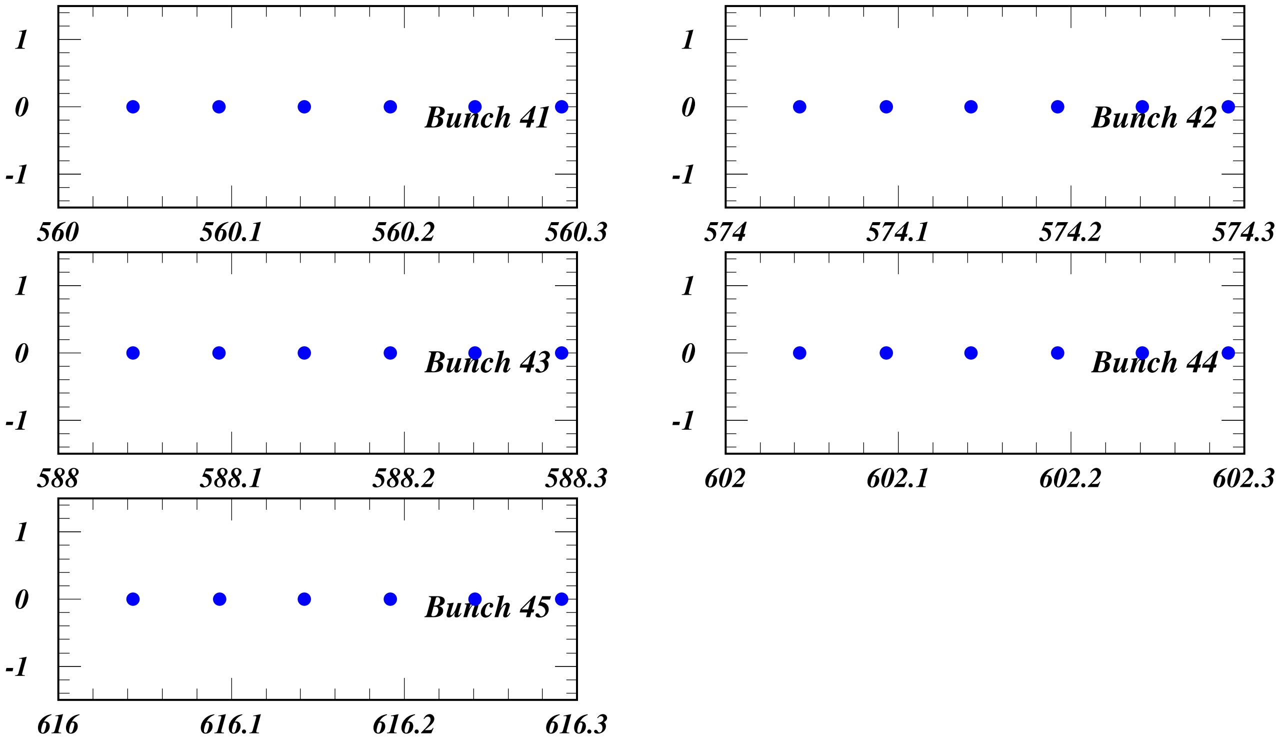

TS20091110_23nm (2D Averages): Field Gradient dE$_Y$ /dY (V/m^2)
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20
Time (ns)
Time (ns)

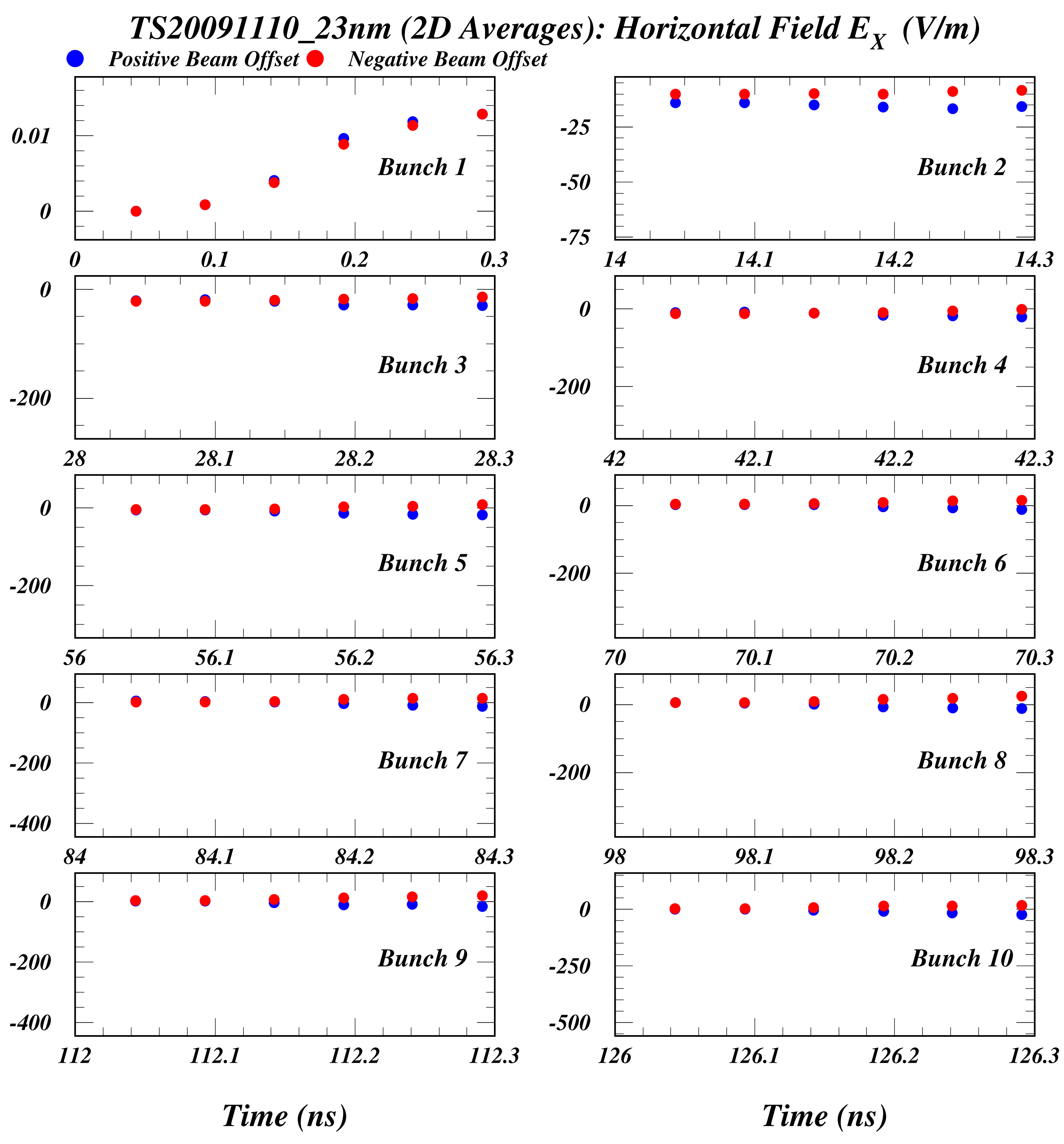

TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)

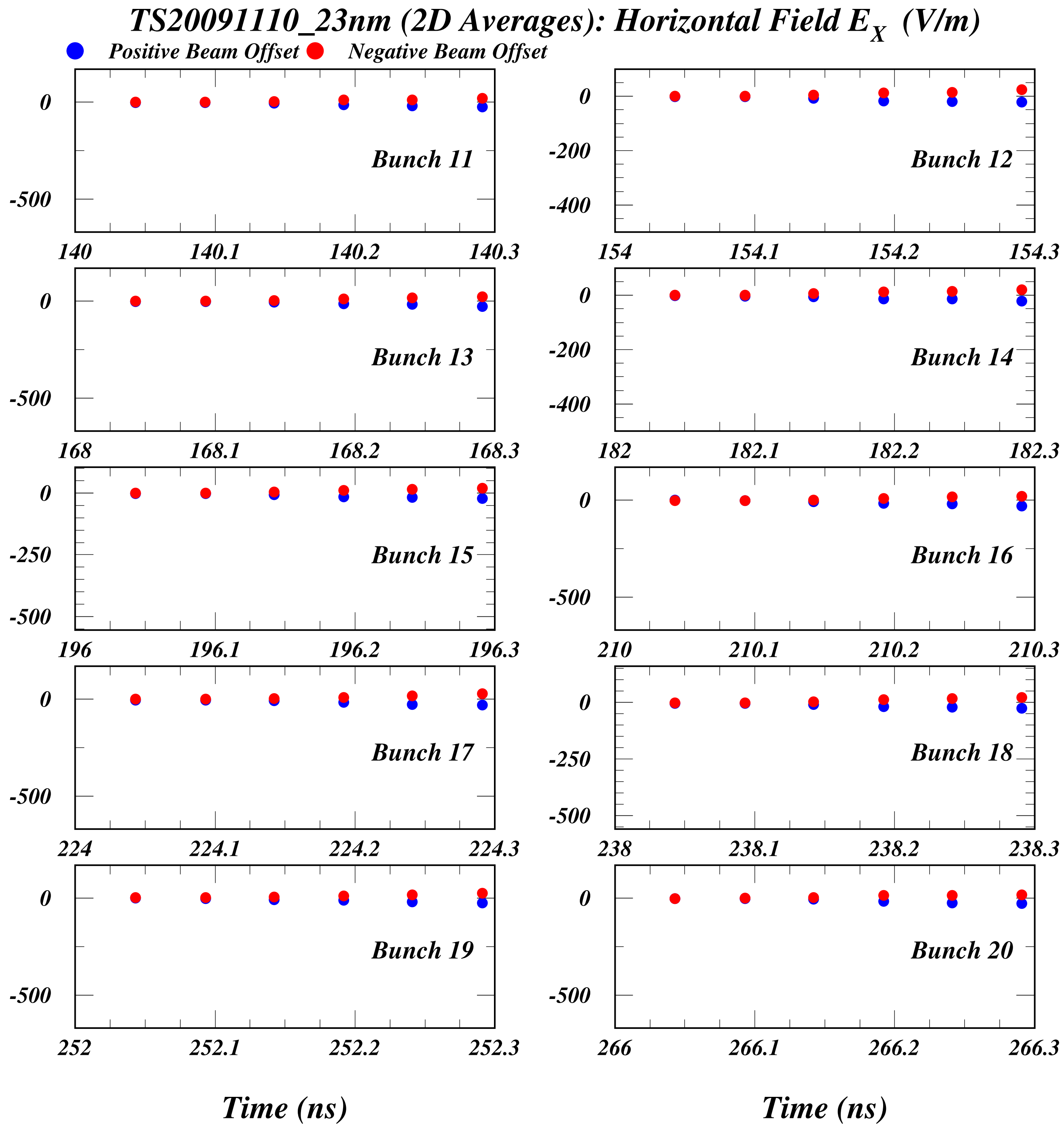
TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)

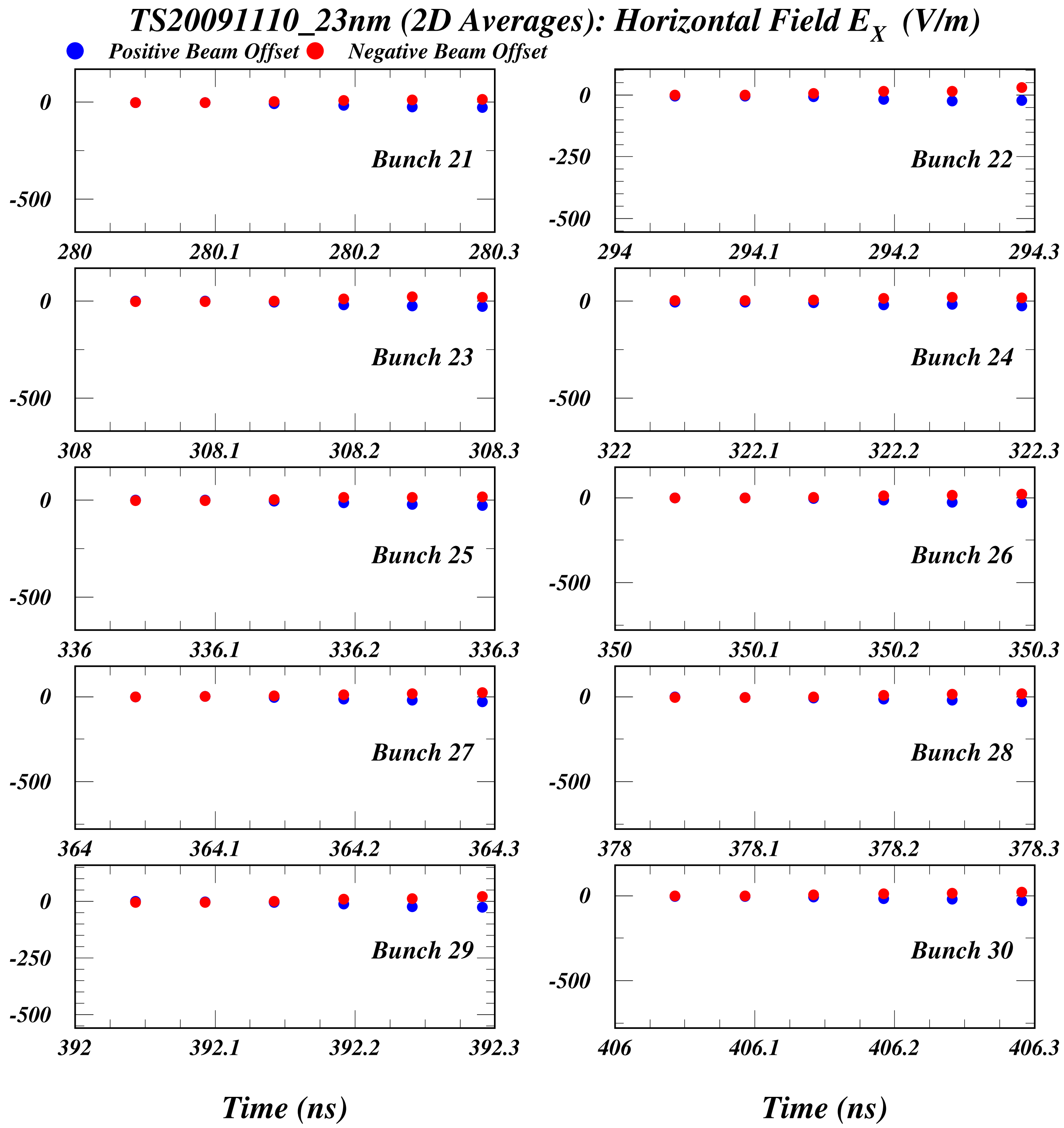


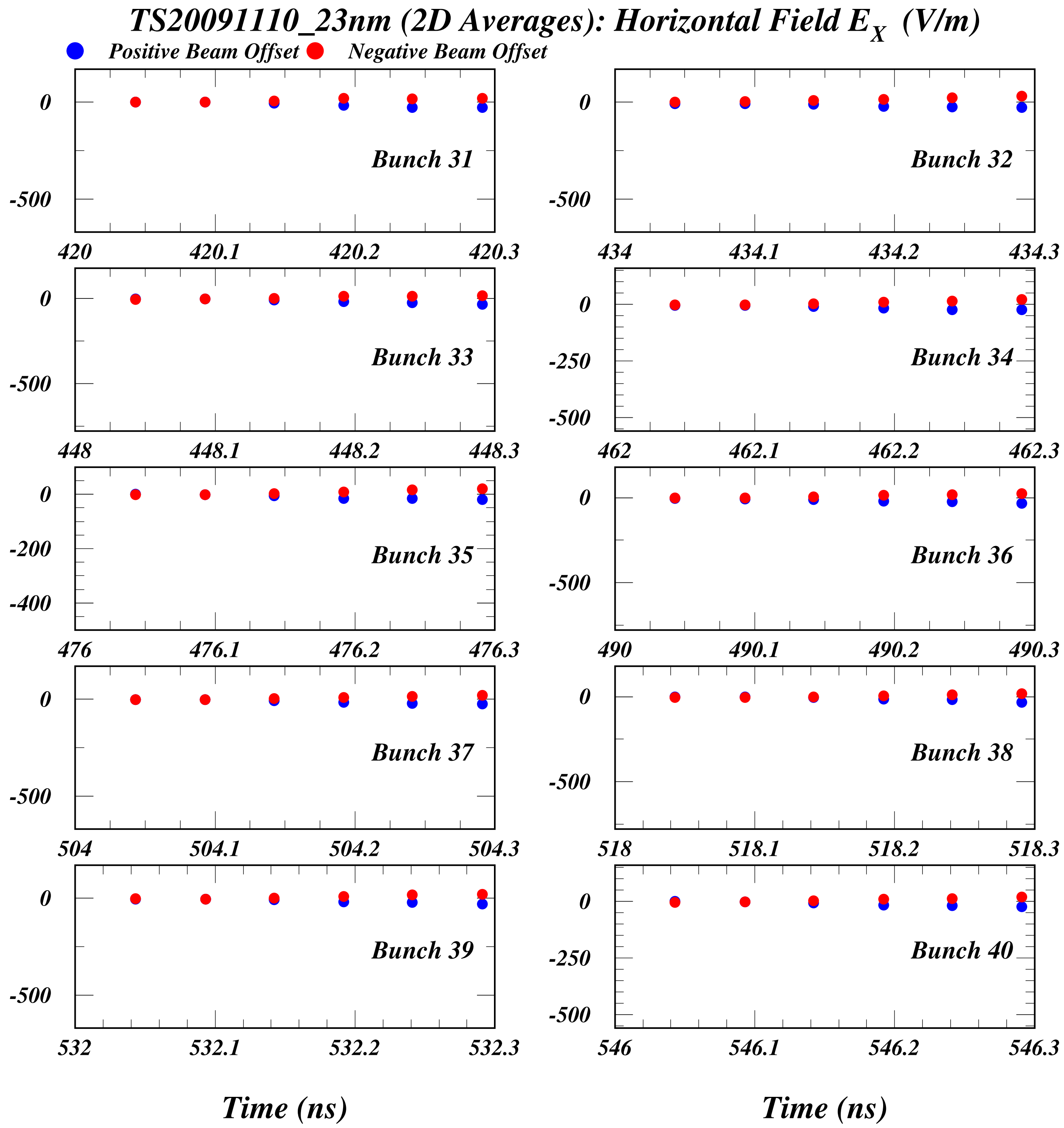
TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)



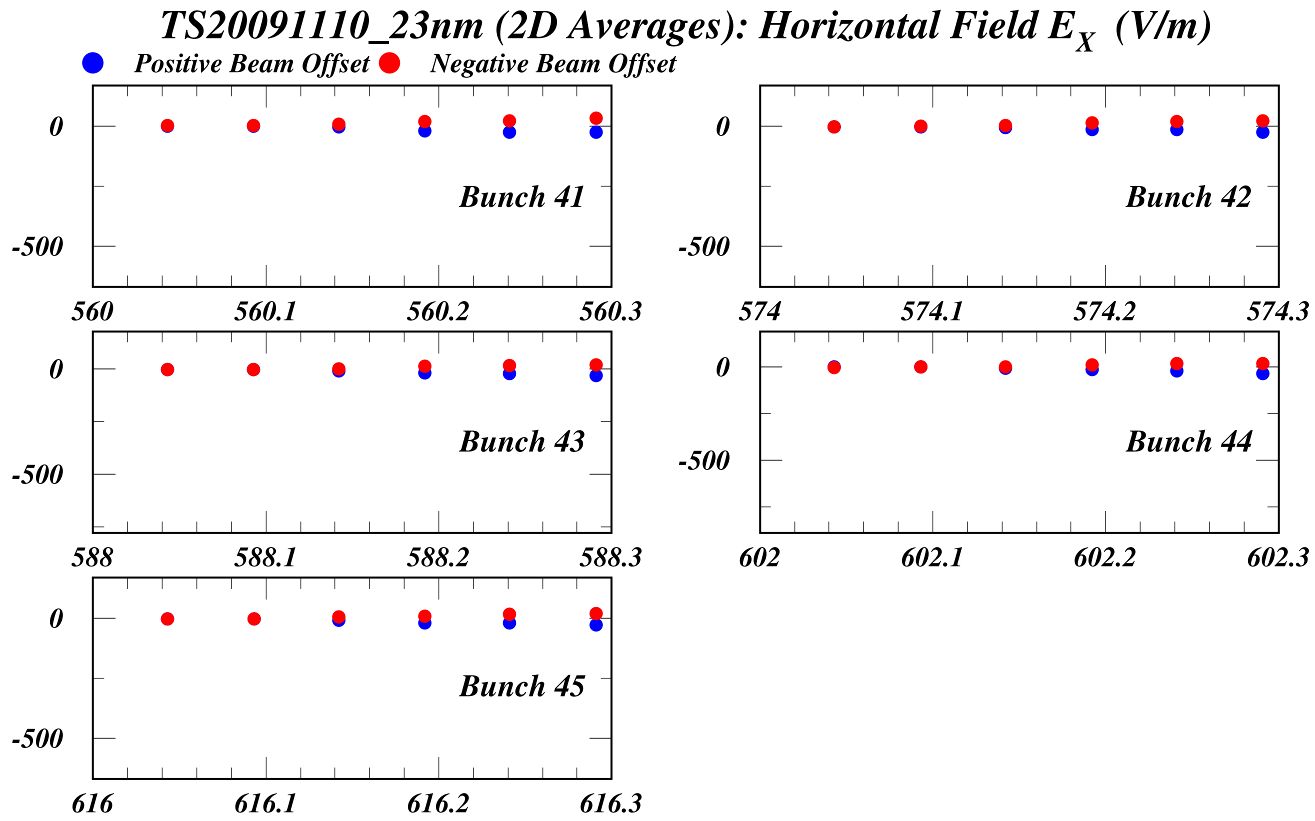

TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10
Time (ns)
Time (ns)

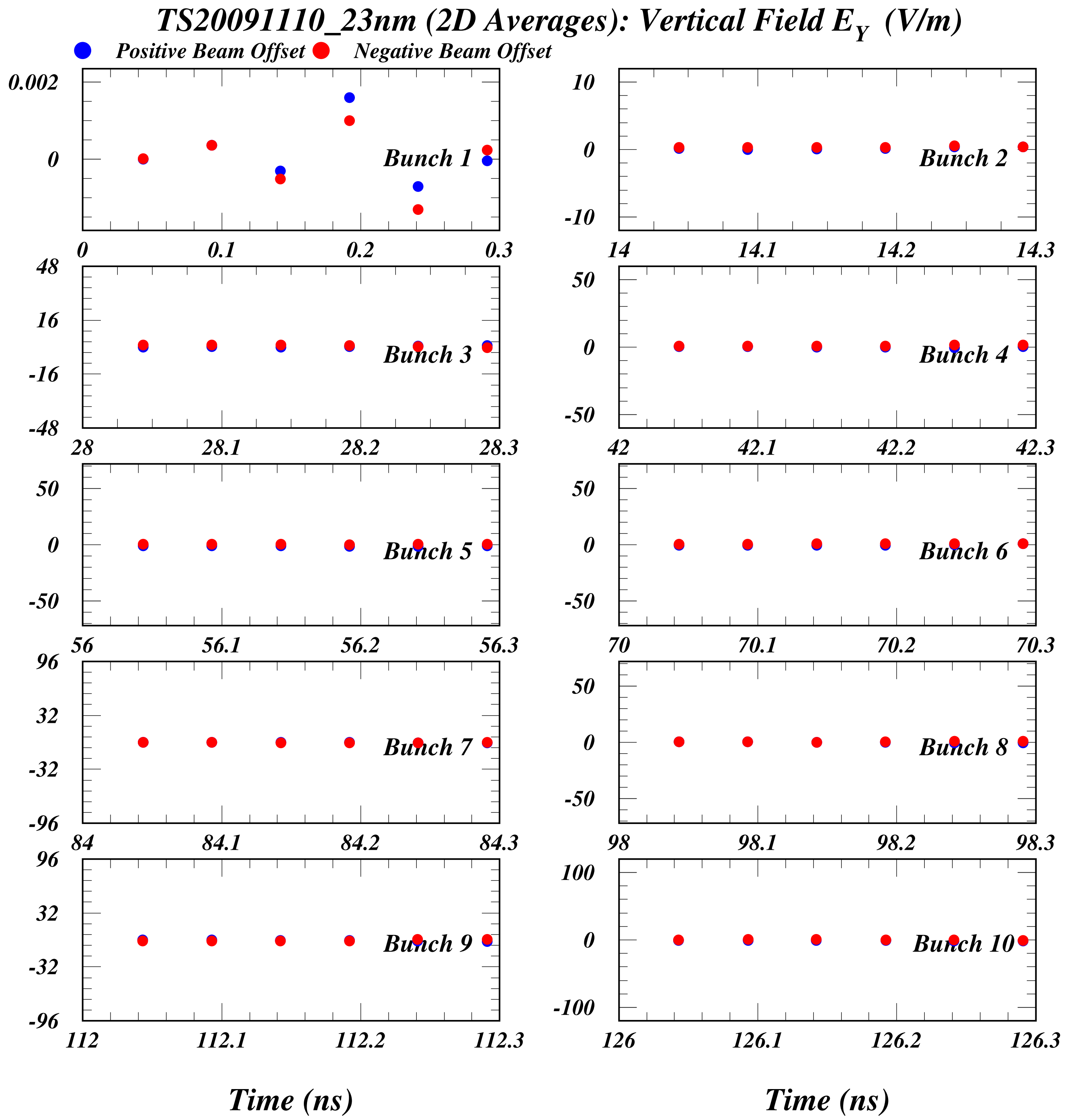

TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20
Time (ns)
Time (ns)


TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)

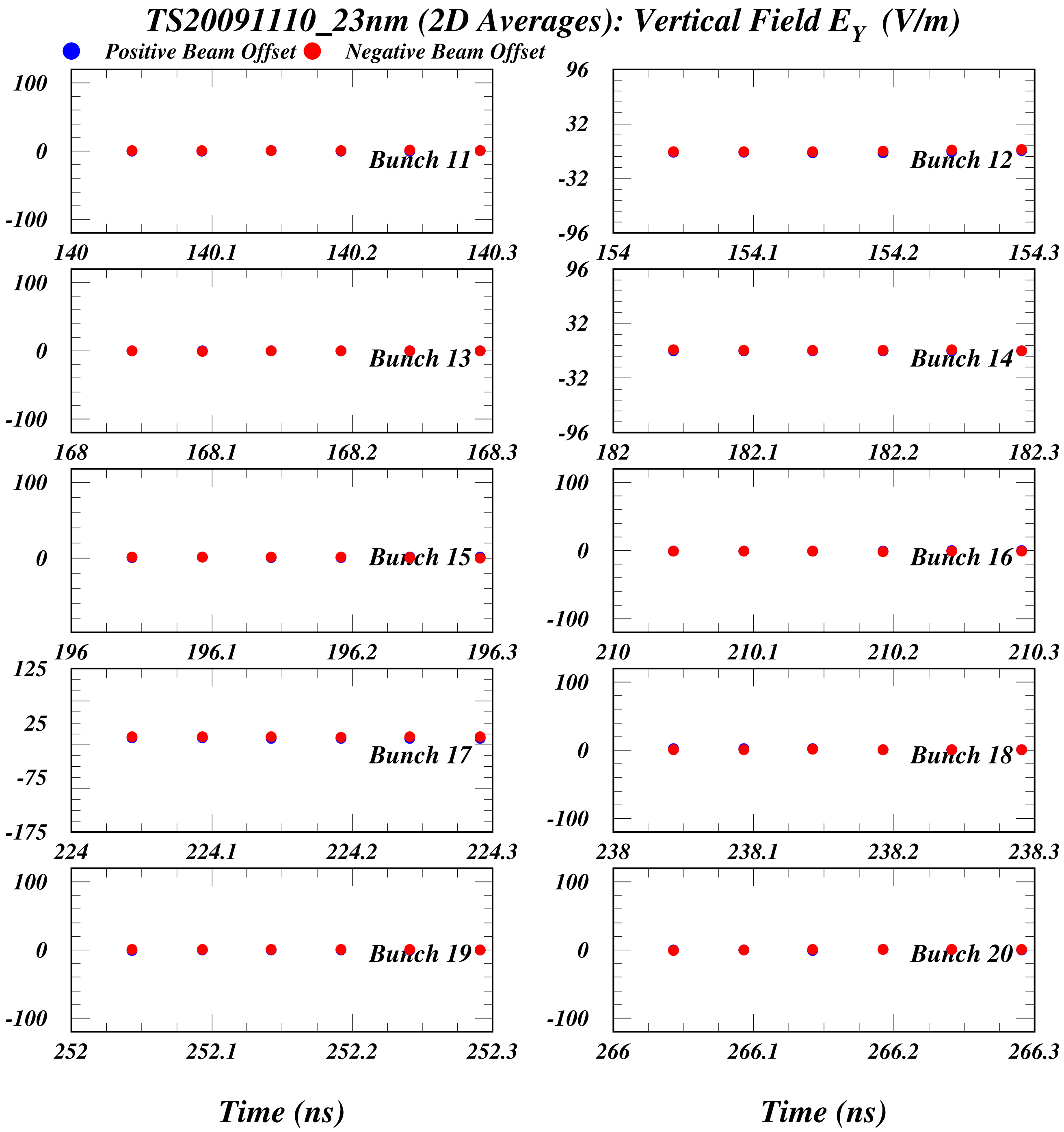


TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 31
Bunch 32
Bunch 33
Bunch 34
Bunch 35
Bunch 36
Bunch 37
Bunch 38
Bunch 39
Bunch 40
Time (ns)
Time (ns)

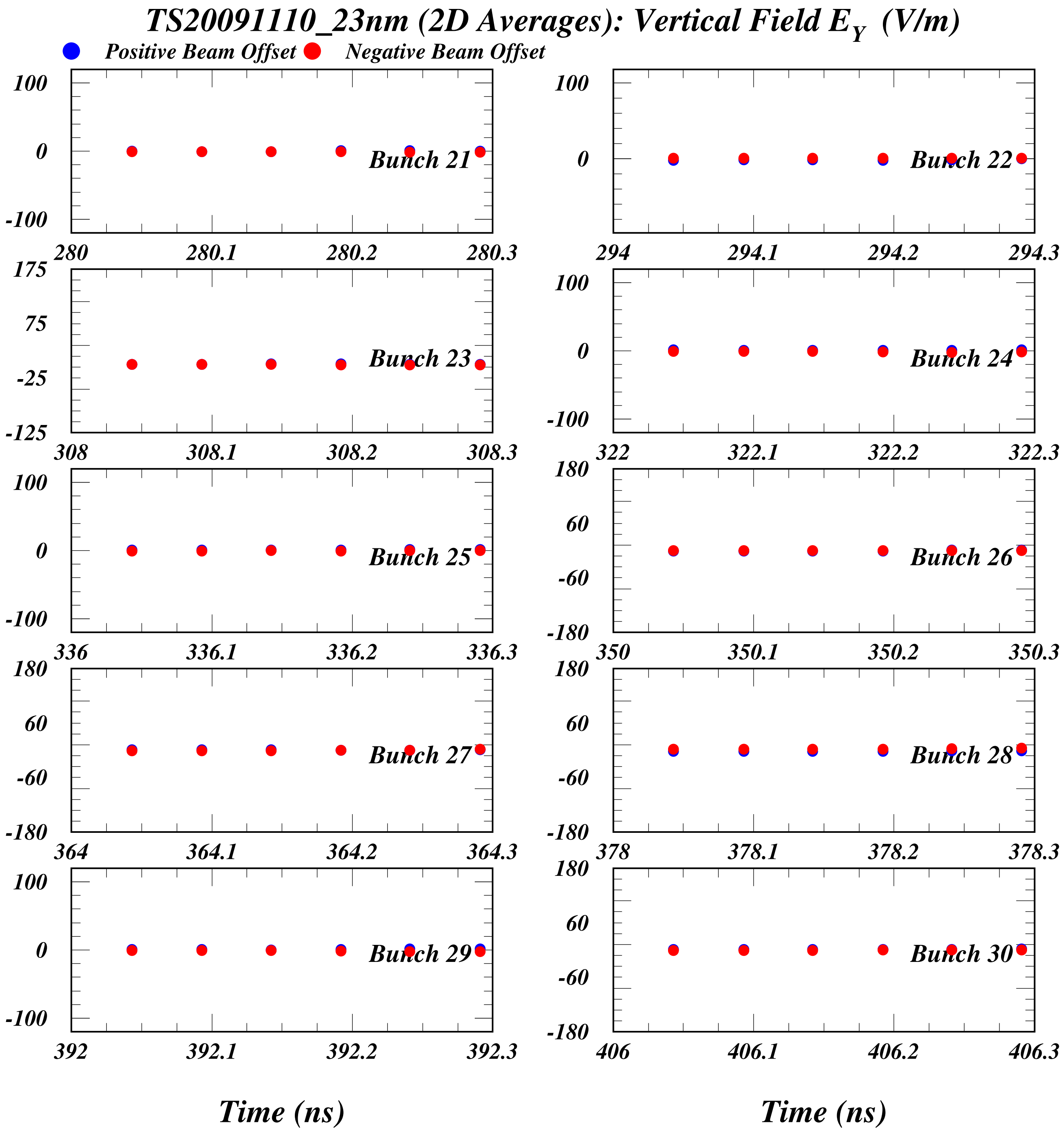

TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 41
Bunch 42
Bunch 43
Bunch 44
Bunch 45
0
-500
560
560.1
560.2
560.3
574
574.1
574.2
574.3
588
588.1
588.2
588.3
602
602.1
602.2
602.3
616
616.1
616.2
616.3

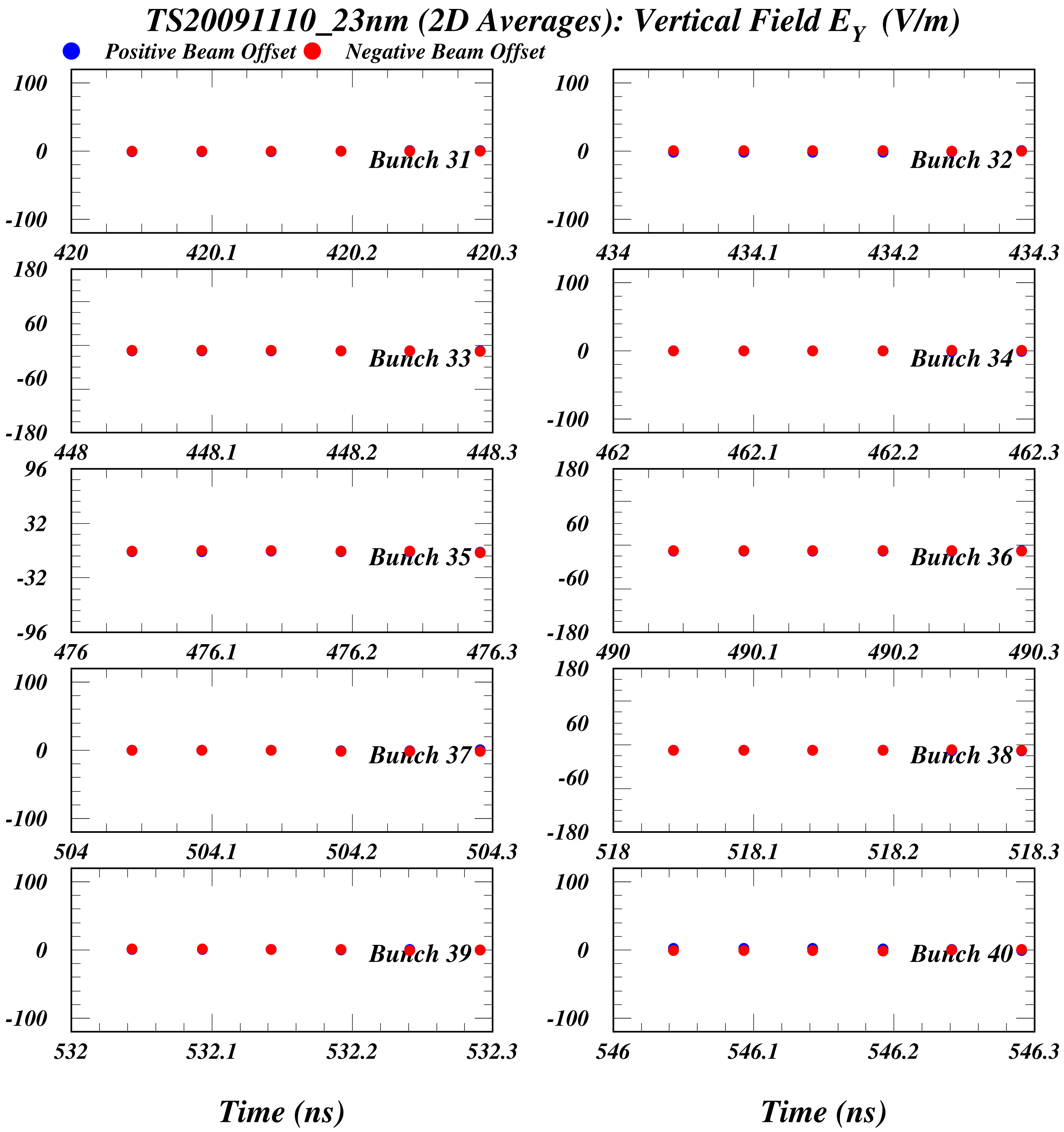


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10
Time (ns)
Time (ns)

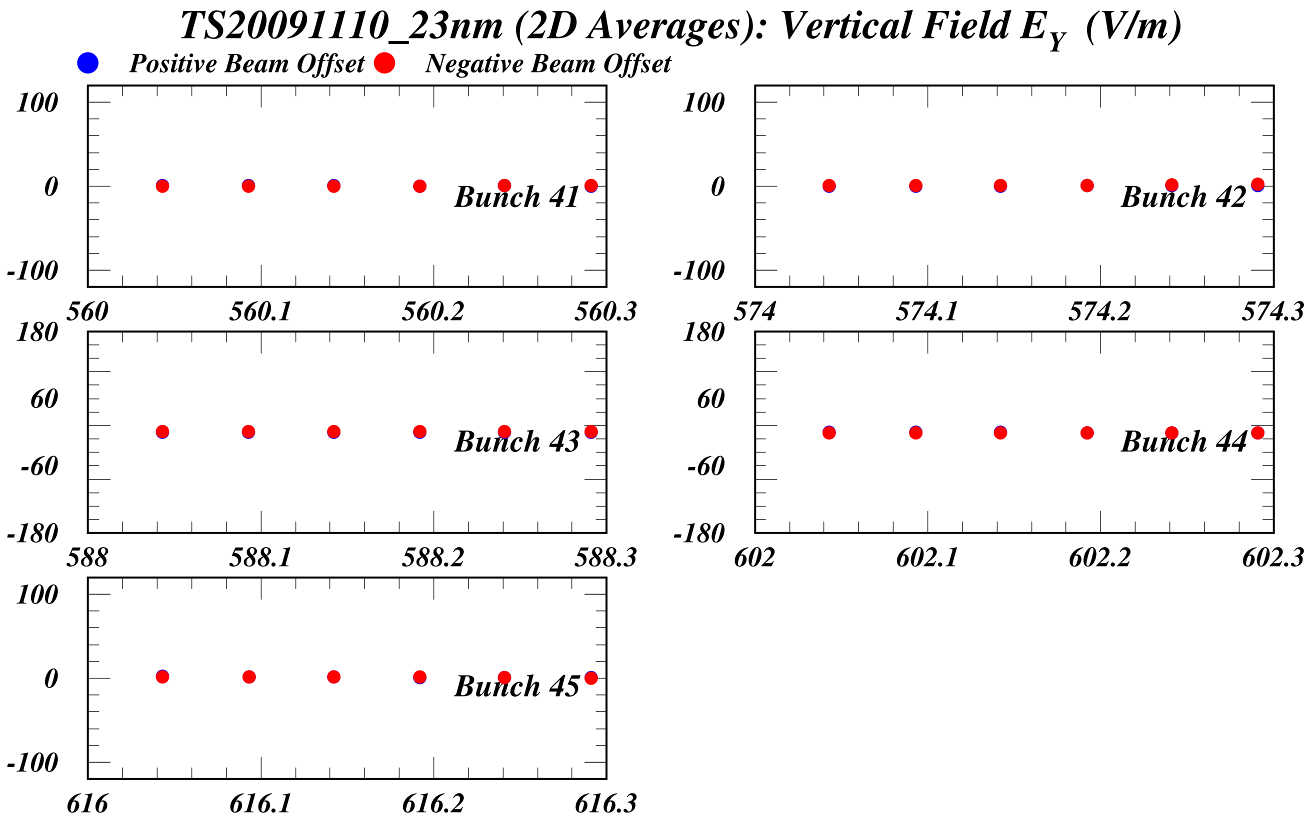


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20
Time (ns)
Time (ns)

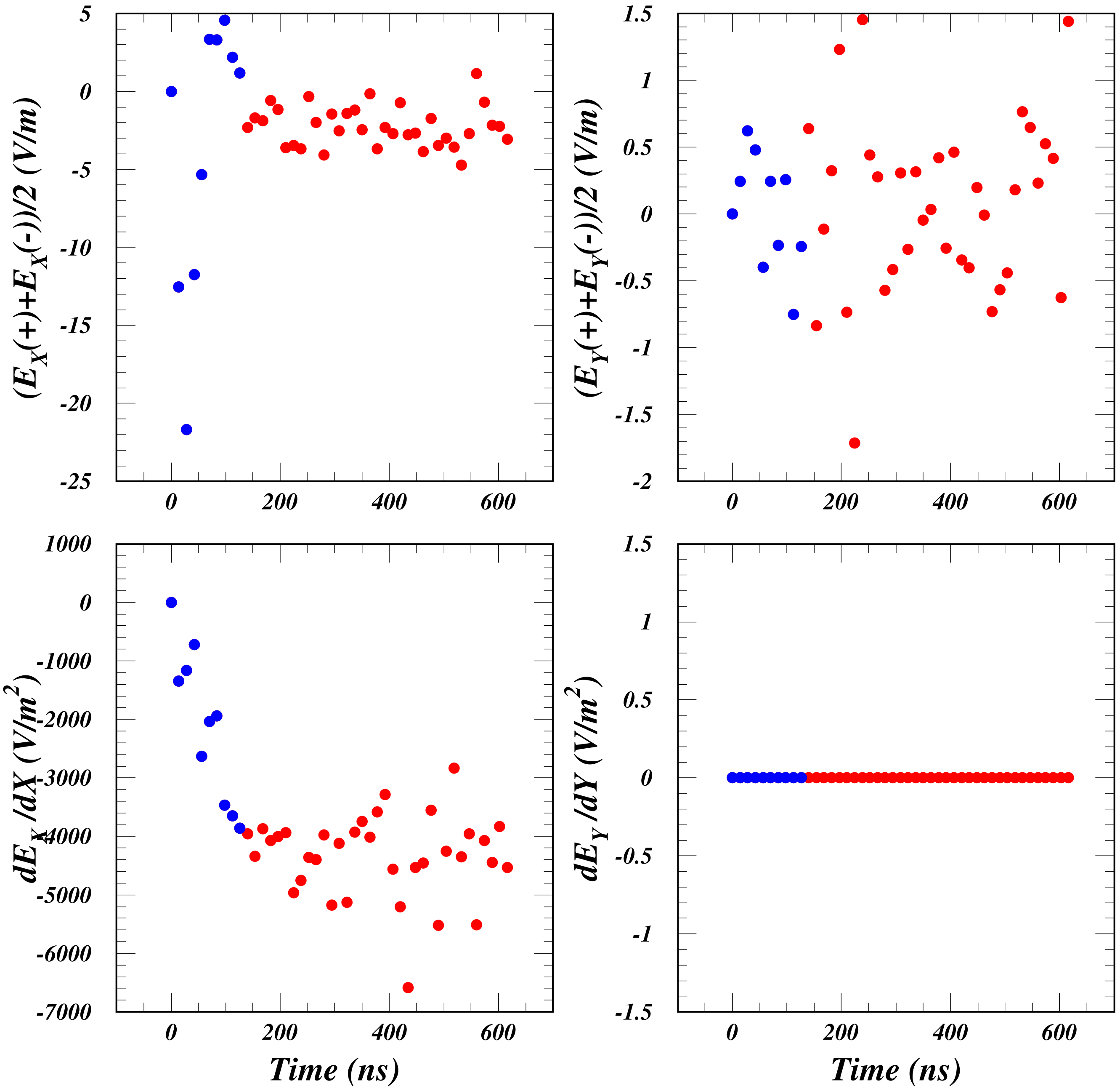

TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)

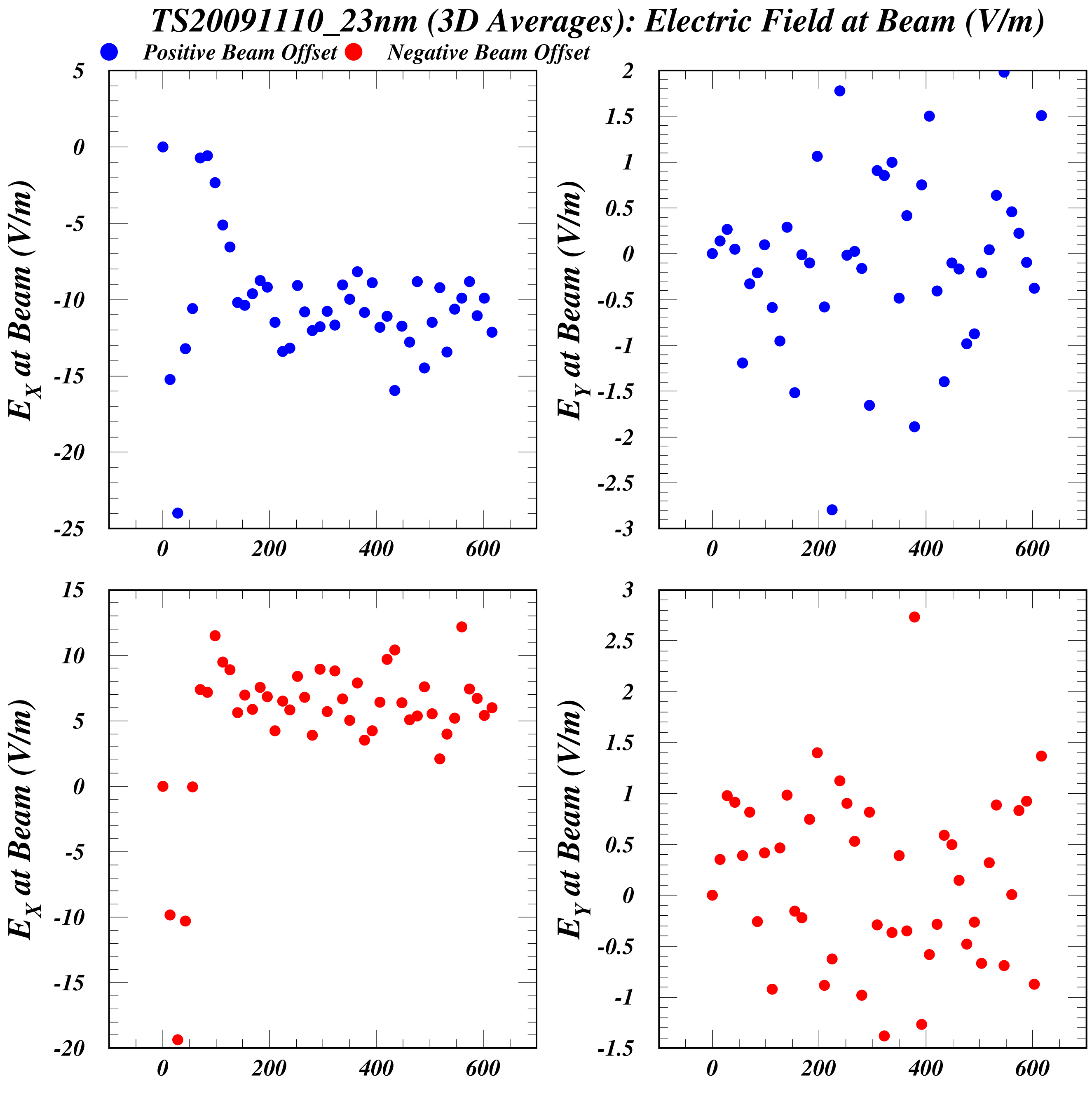


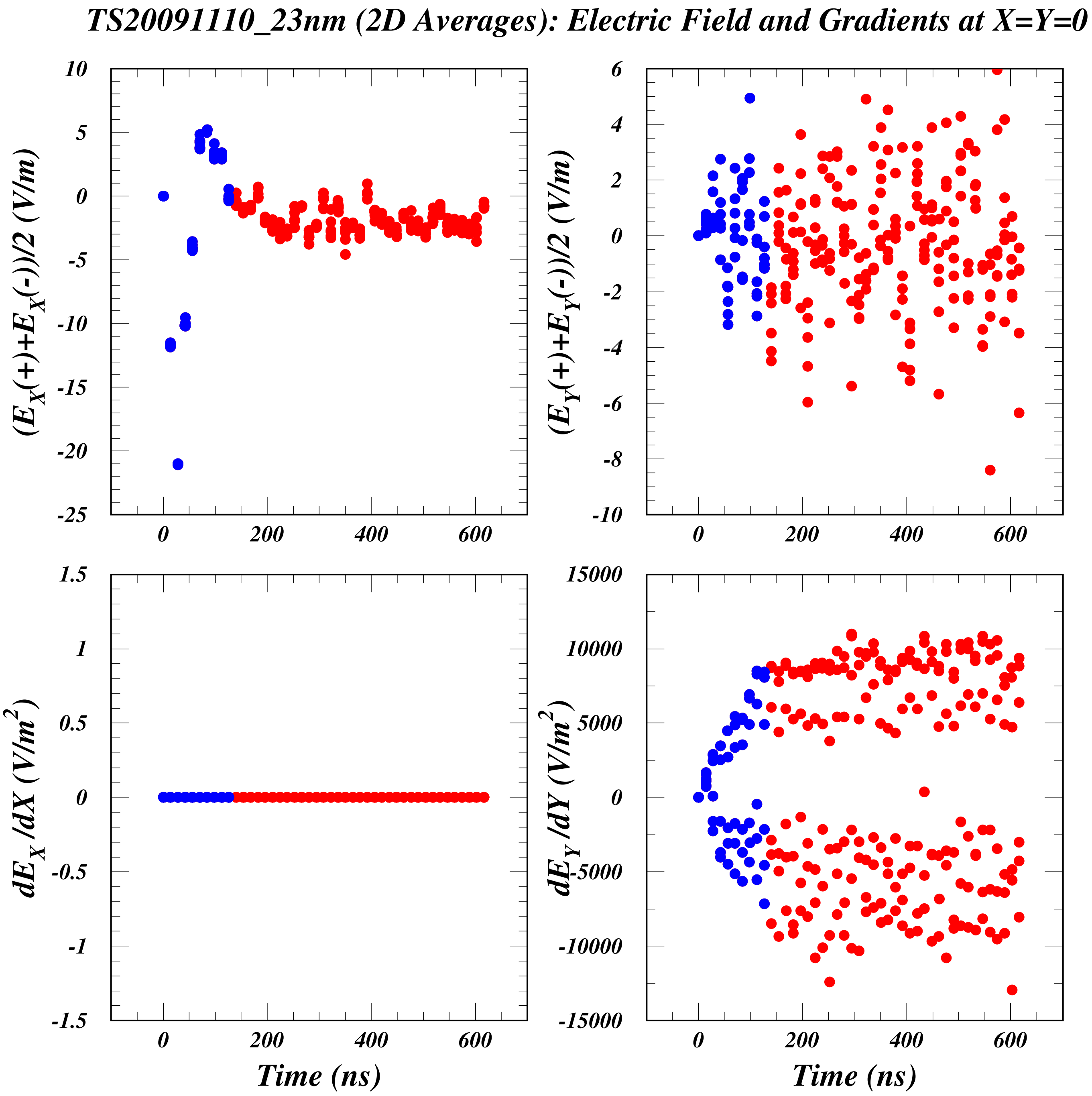
TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 31
Bunch 32
Bunch 33
Bunch 34
Bunch 35
Bunch 36
Bunch 37
Bunch 38
Bunch 39
Bunch 40
Time (ns)
Time (ns)


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 41
Bunch 42
Bunch 43
Bunch 44
Bunch 45
100
0
-100
180
60
-60
-180
560
560.1
560.2
560.3
574
574.1
574.2
574.3
588
588.1
588.2
588.3
602
602.1
602.2
602.3
616
616.1
616.2
616.3

TS20091110_23nm (3D Averages): Electric Field and Gradients at X=Y=0

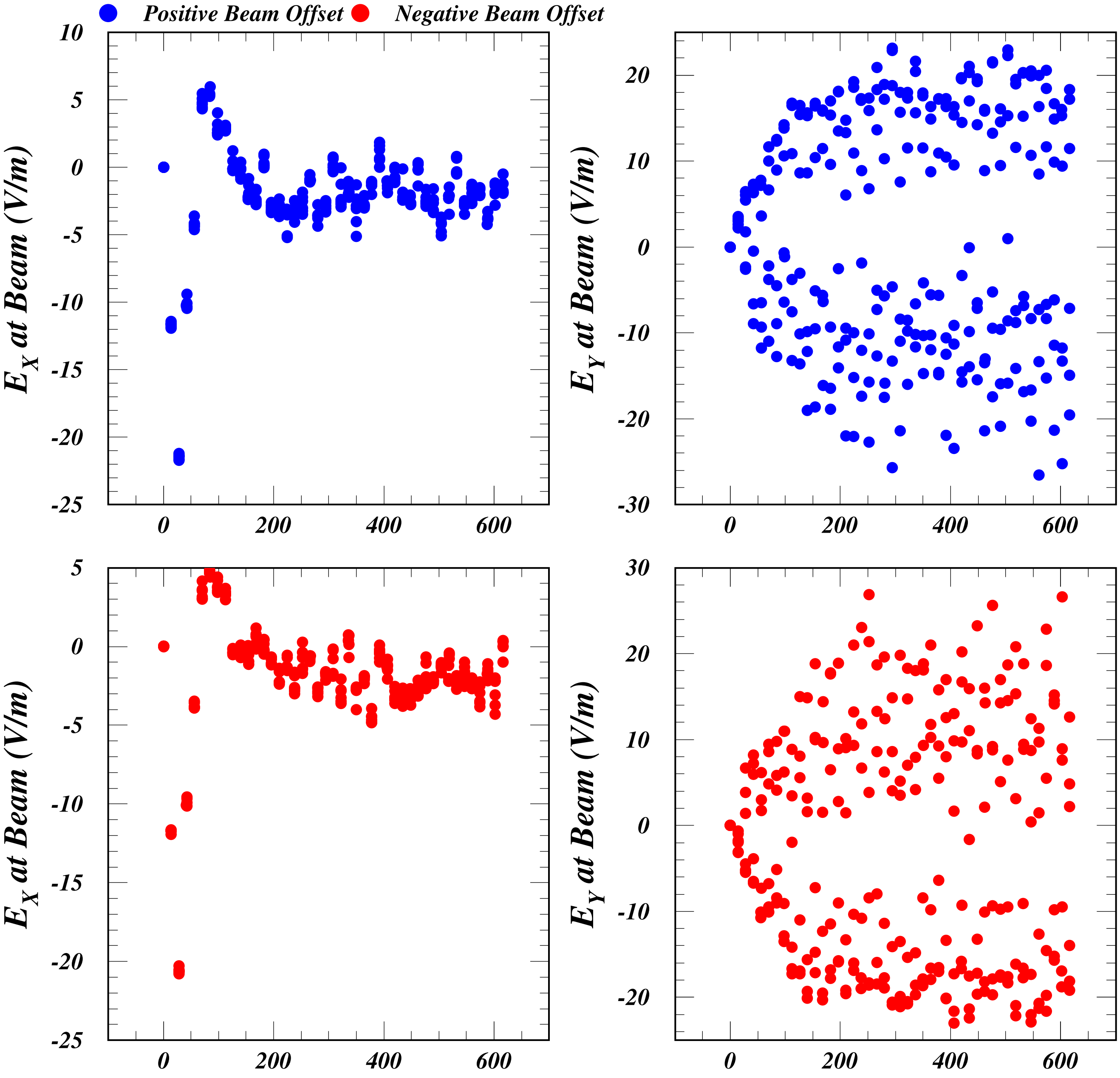



TS20091110_23nm (3D Averages): Electric Field at Beam (V/m)
Positive Beam Offset
Negative Beam Offset
E_X at Beam (V/m)
E_Y at Beam (V/m)
E_X at Beam (V/m)
E_Y at Beam (V/m)

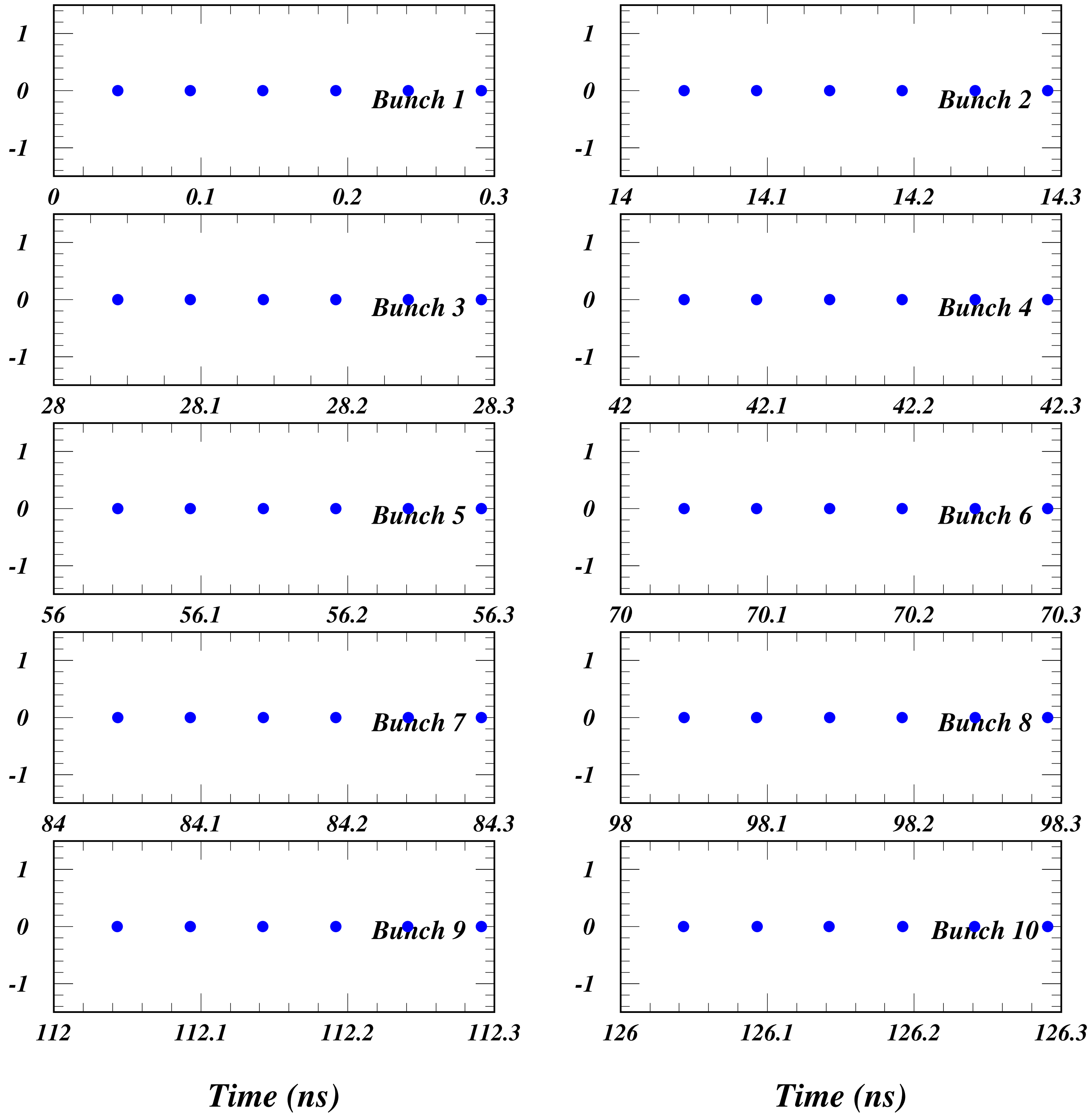


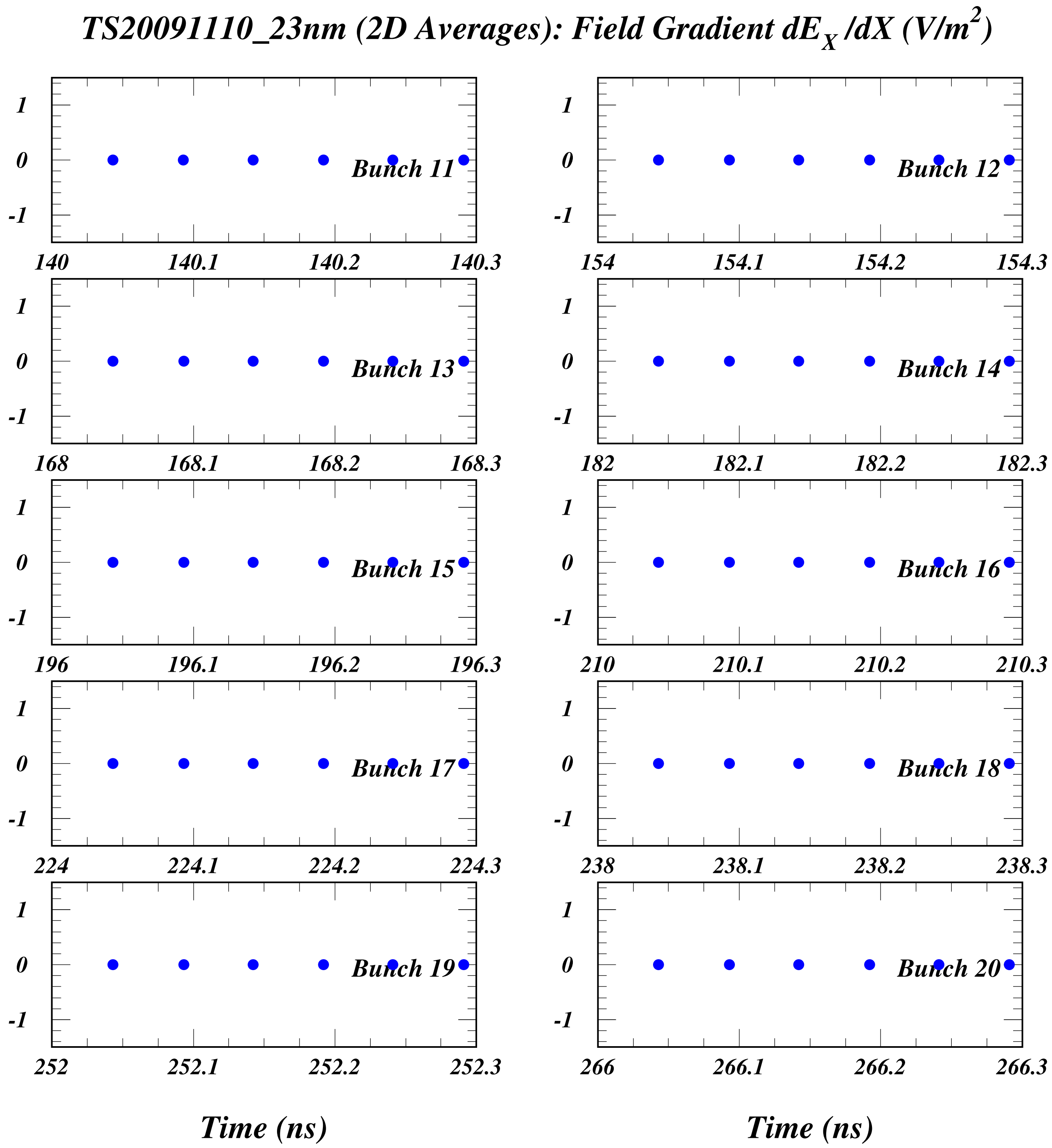
TS20091110_23nm (2D Averages): Electric Field and Gradients at X=Y=0
(E_X(+)+E_X(-))/2 (V/m)
(E_Y(+)+E_Y(-))/2 (V/m)
dE_X /dX (V/m^2)
dE_Y /dY (V/m^2)
Time (ns)
Time (ns)

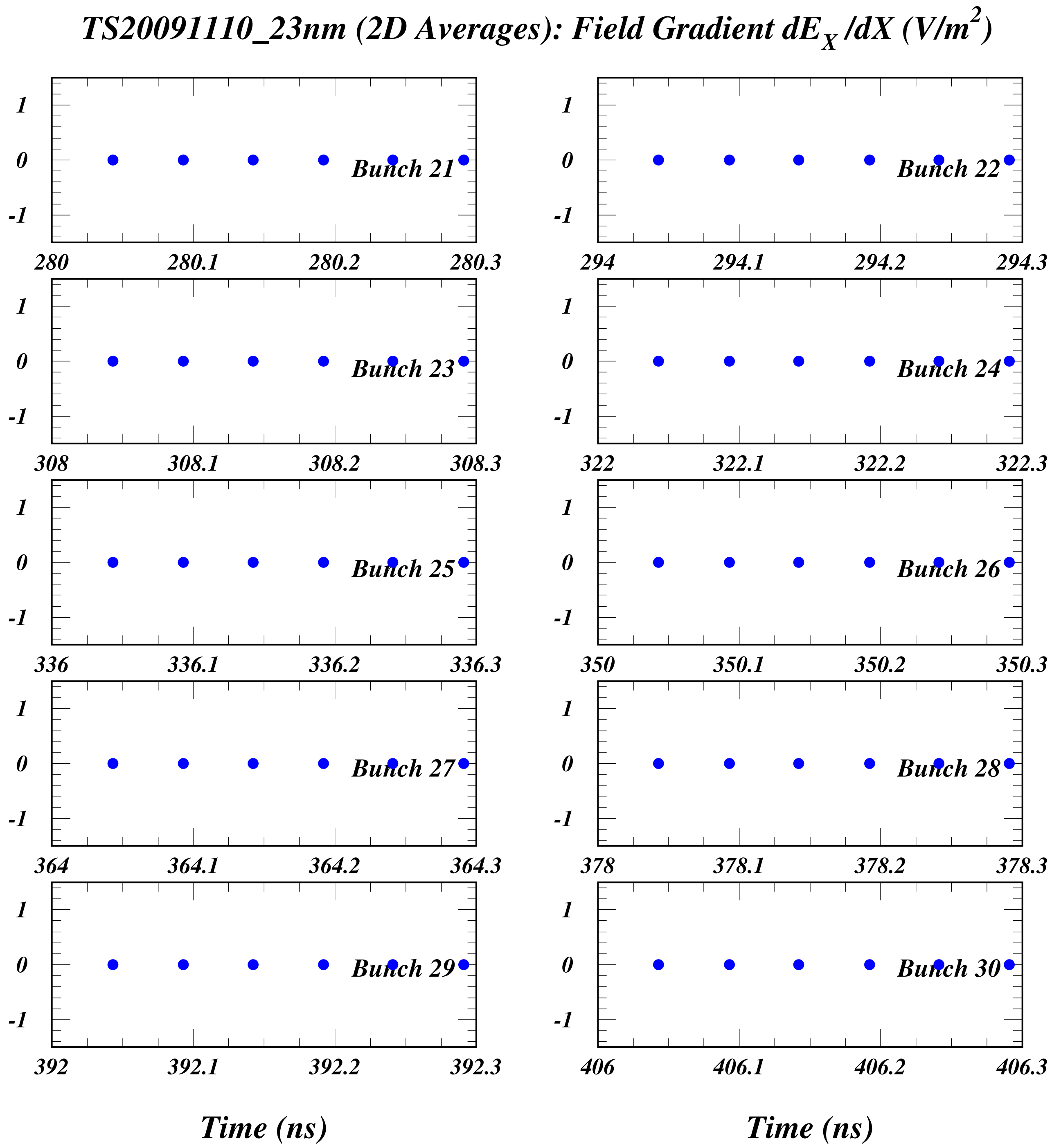
TS20091110_23nm (2D Averages): Electric Field at Beam (V/m)



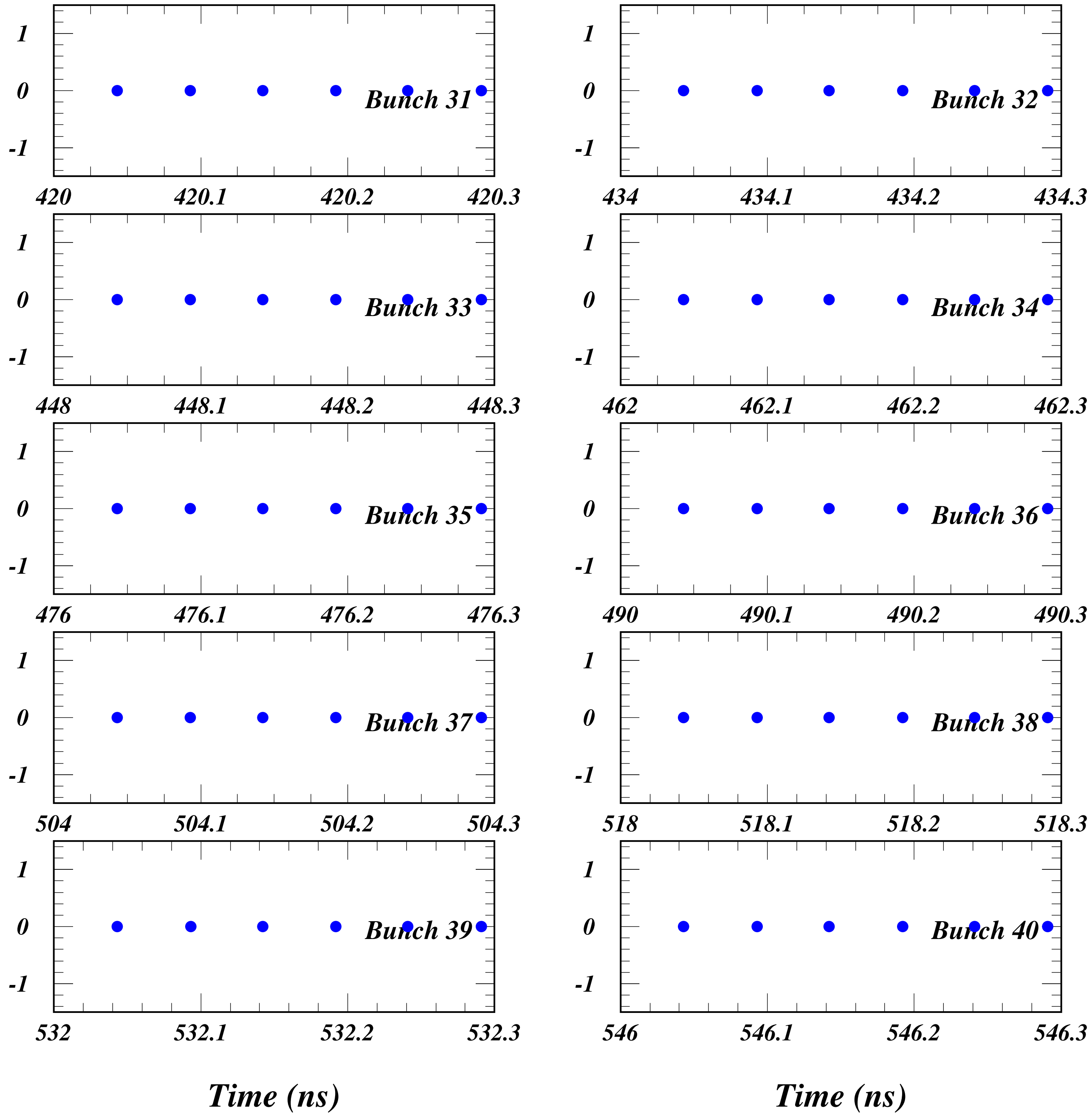
TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)



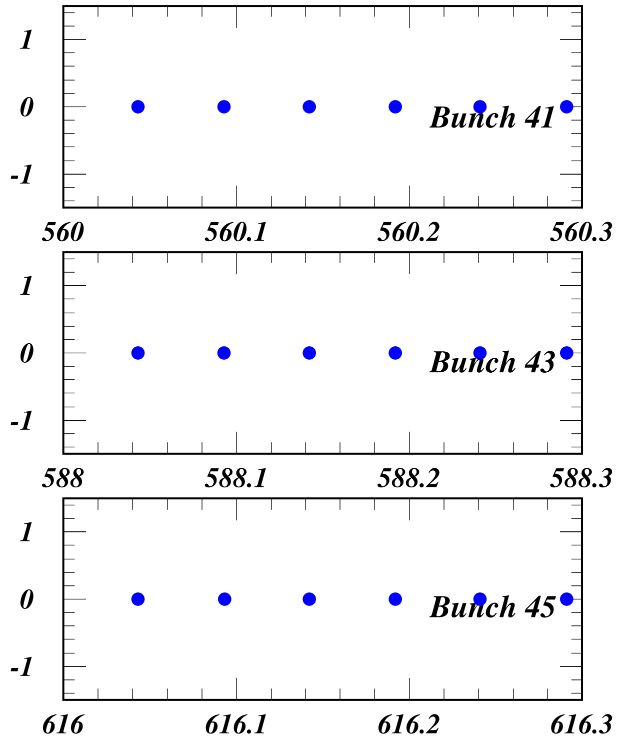

TS20091110_23nm (2D Averages): Field Gradient dE_X /dX (V/m^2)
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20
Time (ns)
Time (ns)

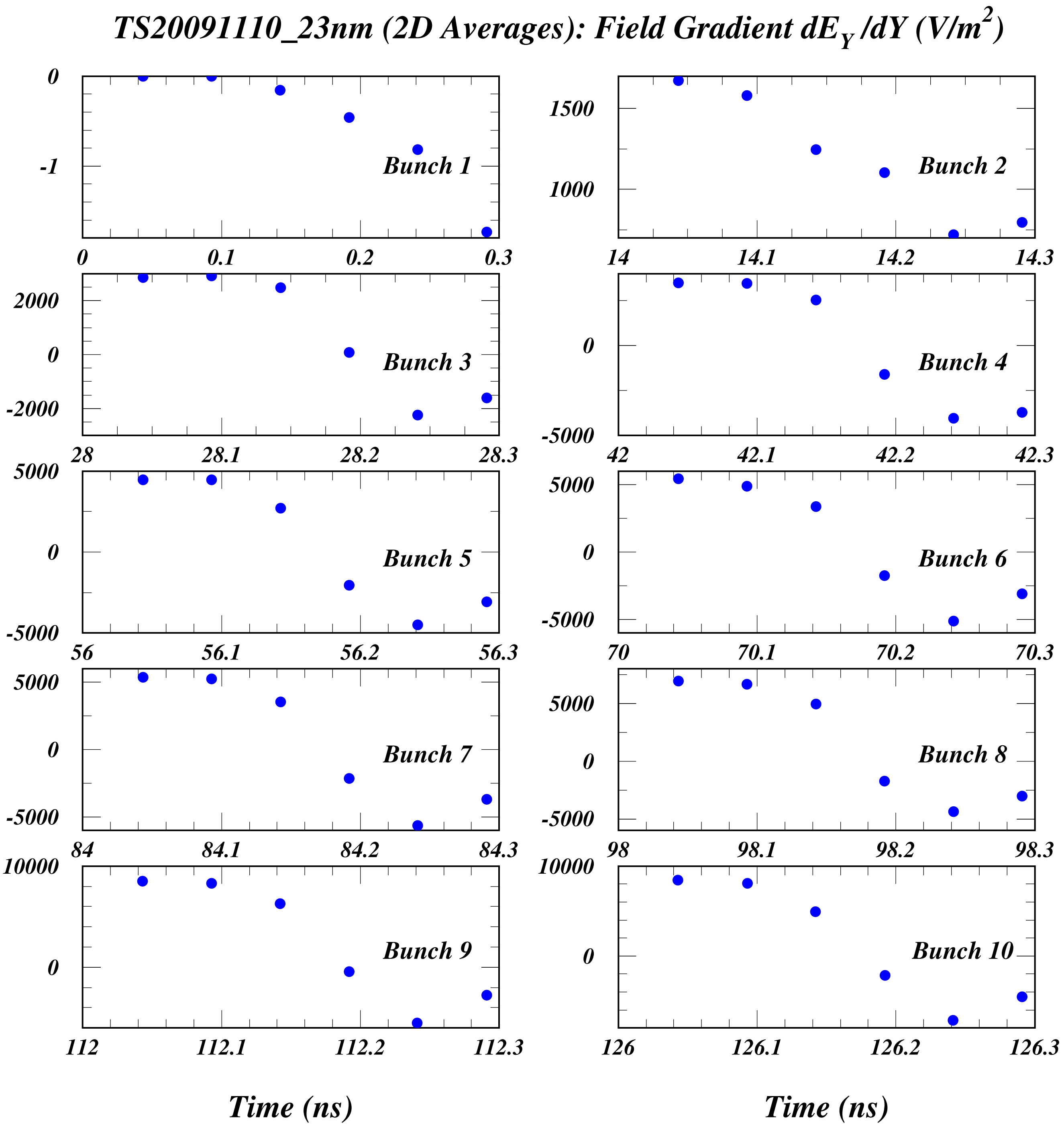

TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)

TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)



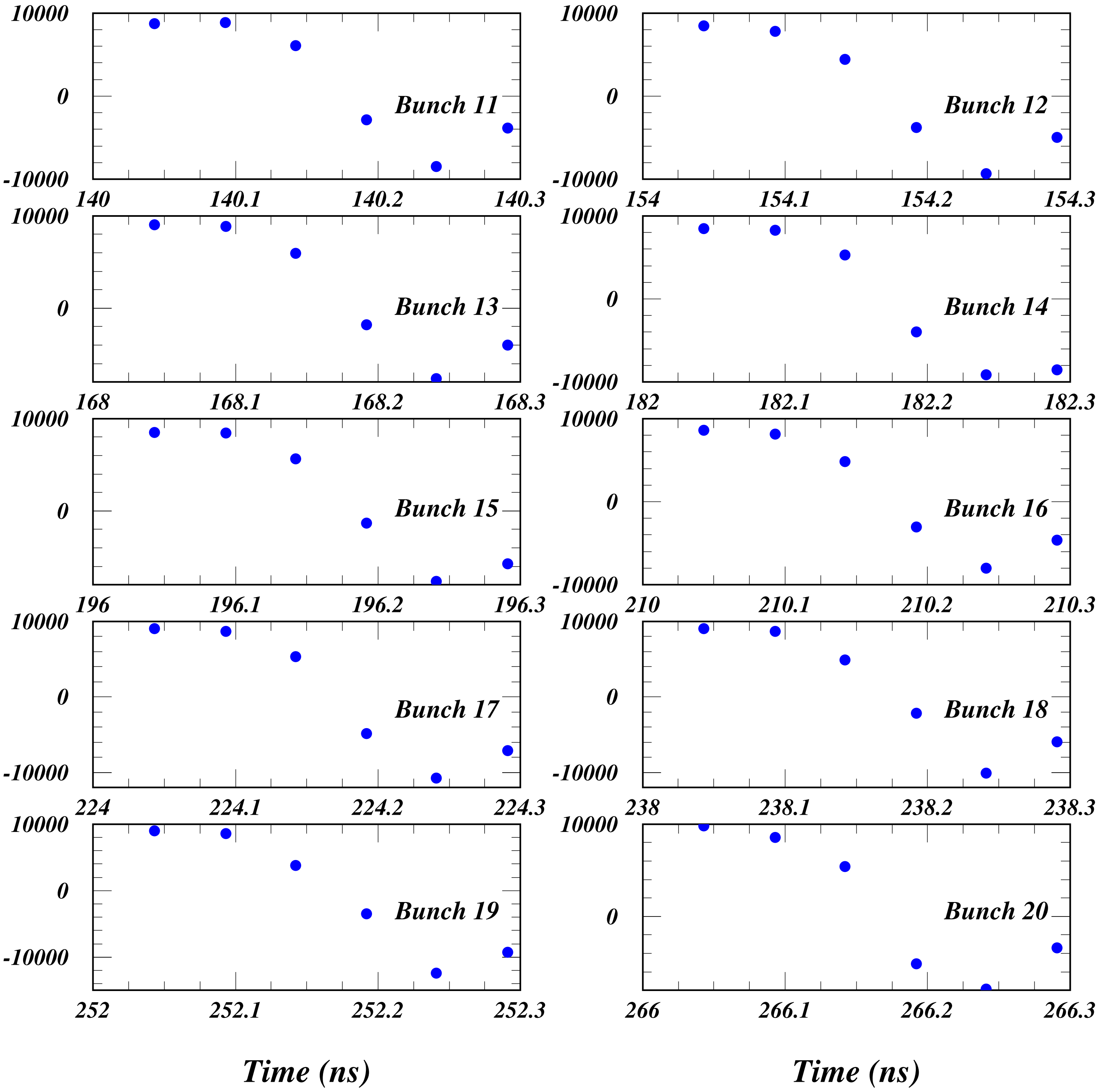
TS20091110_23nm (2D Averages): Field Gradient dE_X/dX (V/m^2)

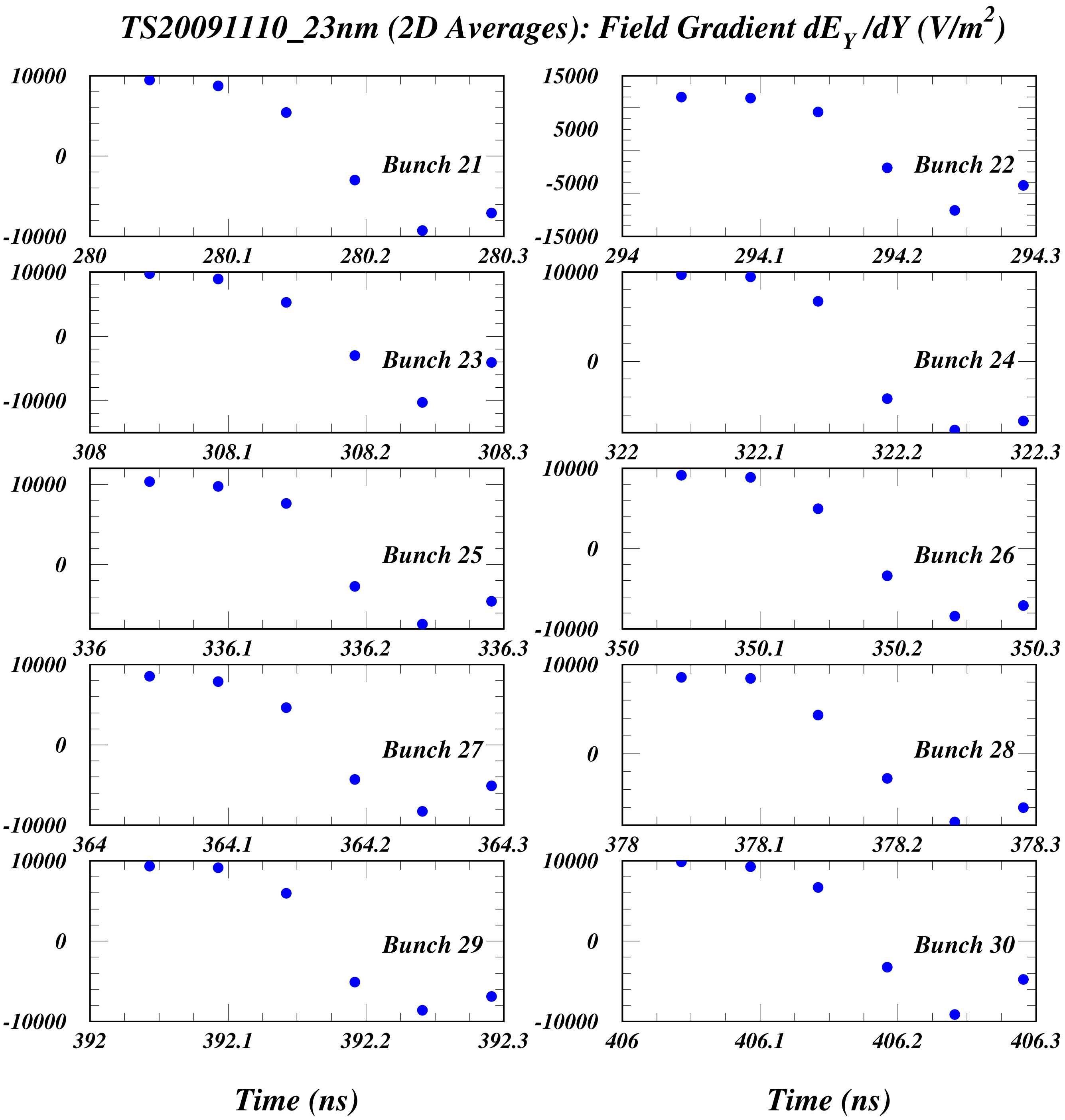




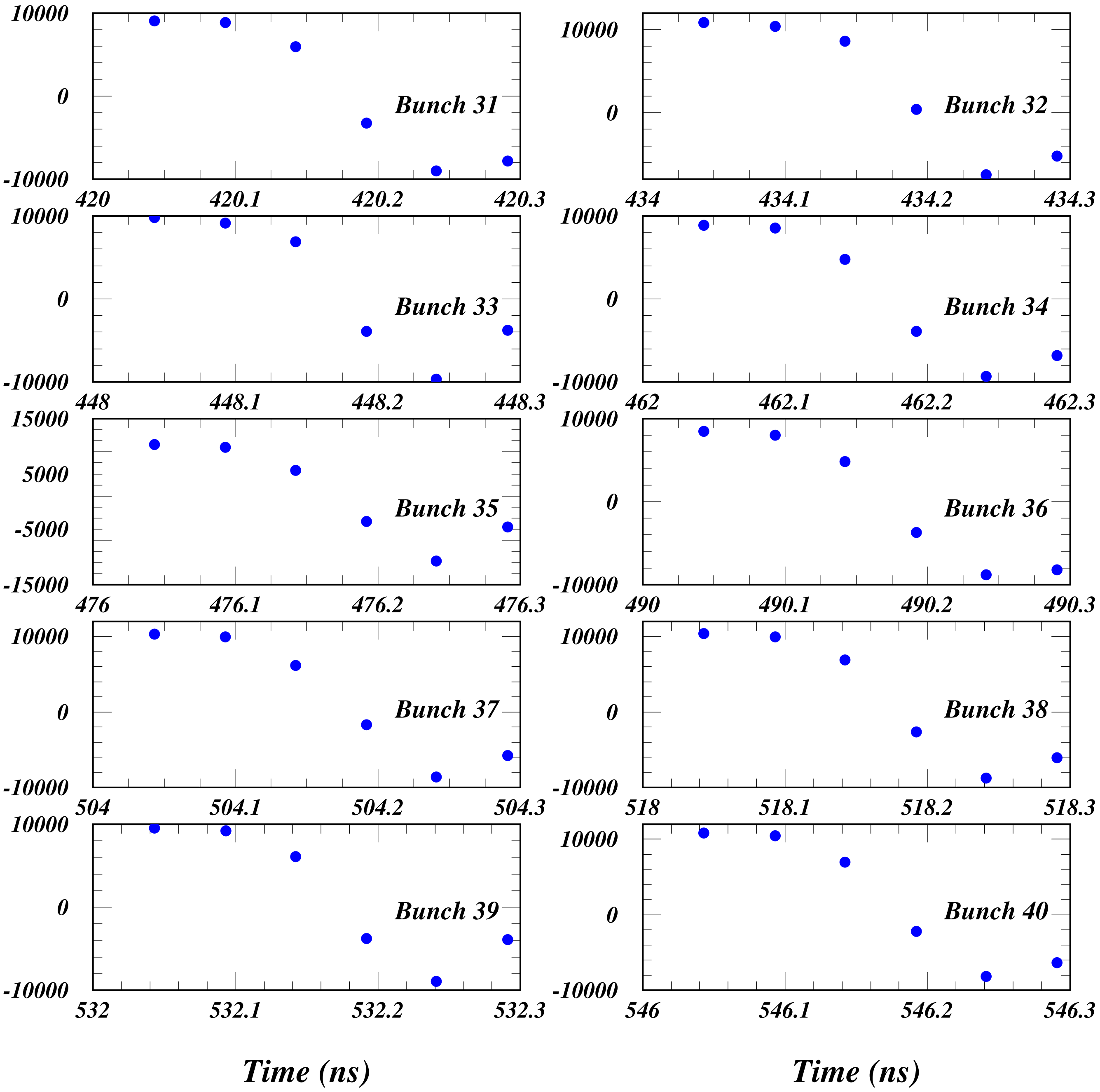
TS20091110_23nm (2D Averages): Field Gradient dE_Y /dY (V/m^2)
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10
Time (ns)
Time (ns)

TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)

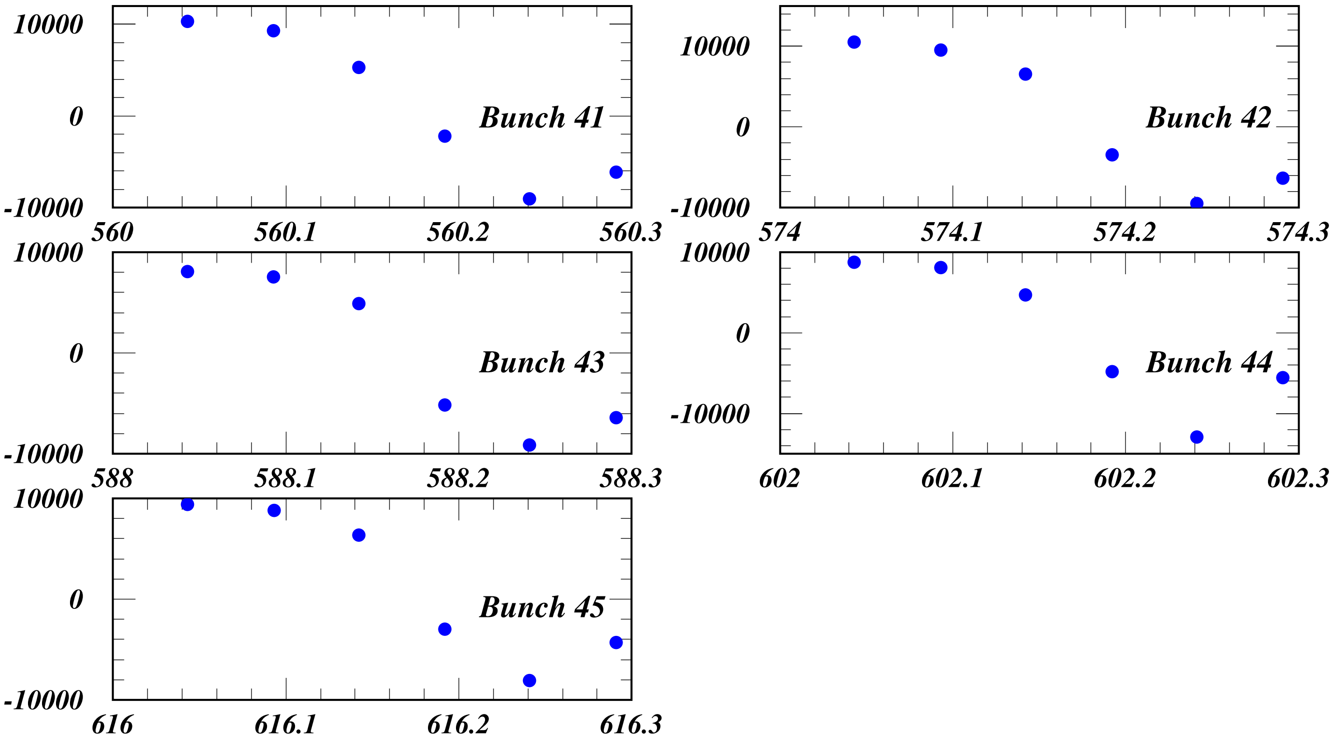


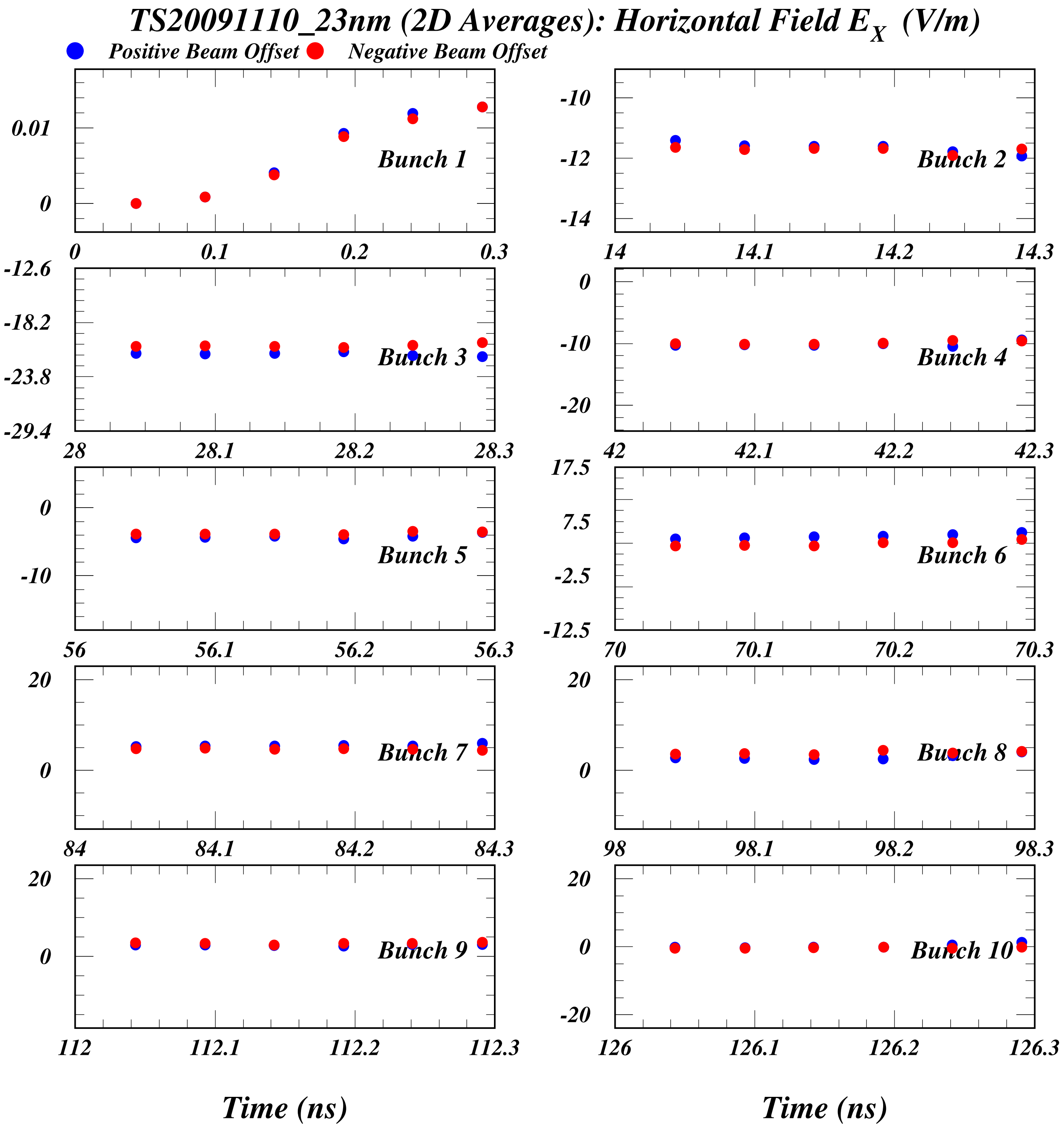

TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)

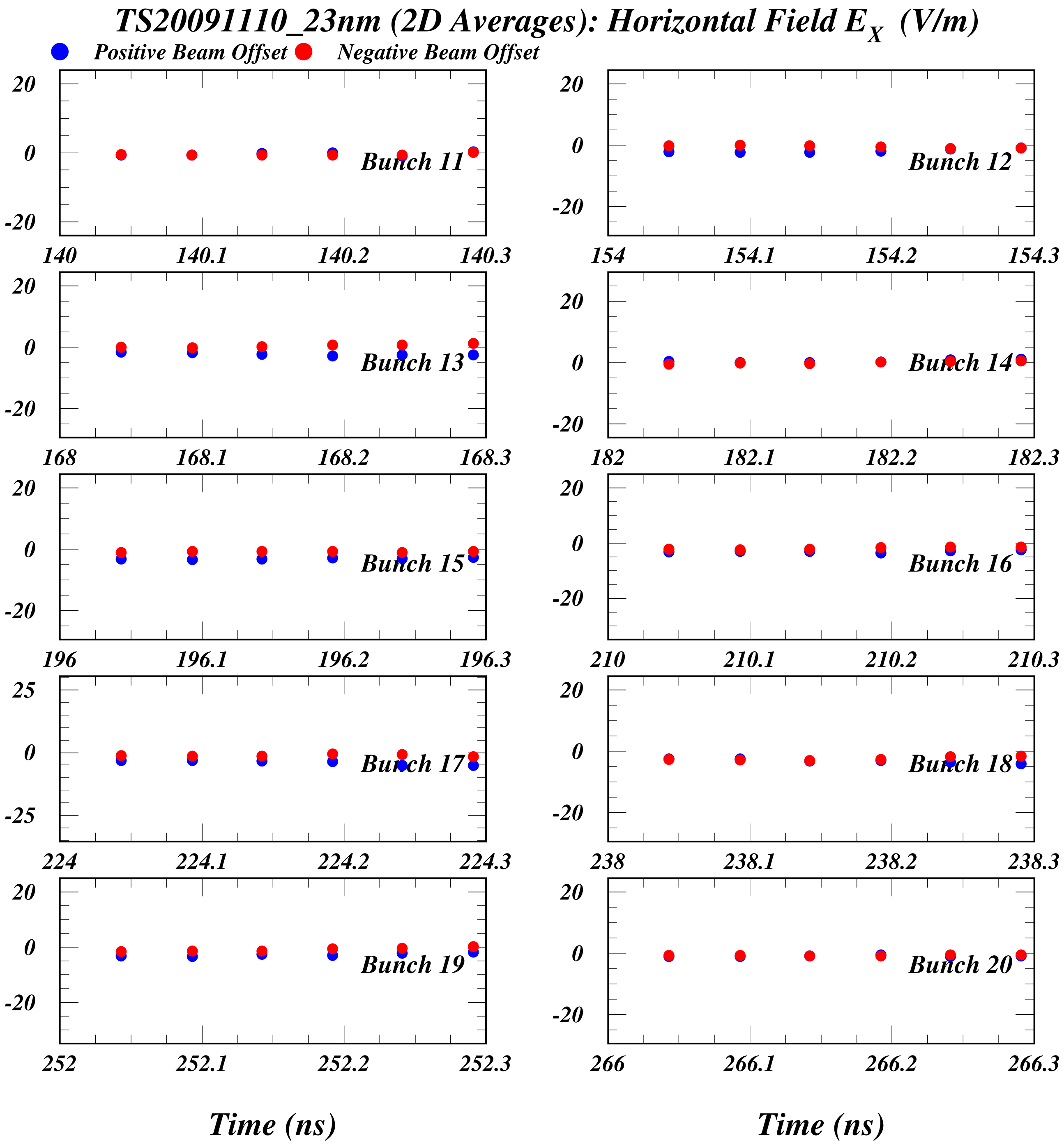
TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)

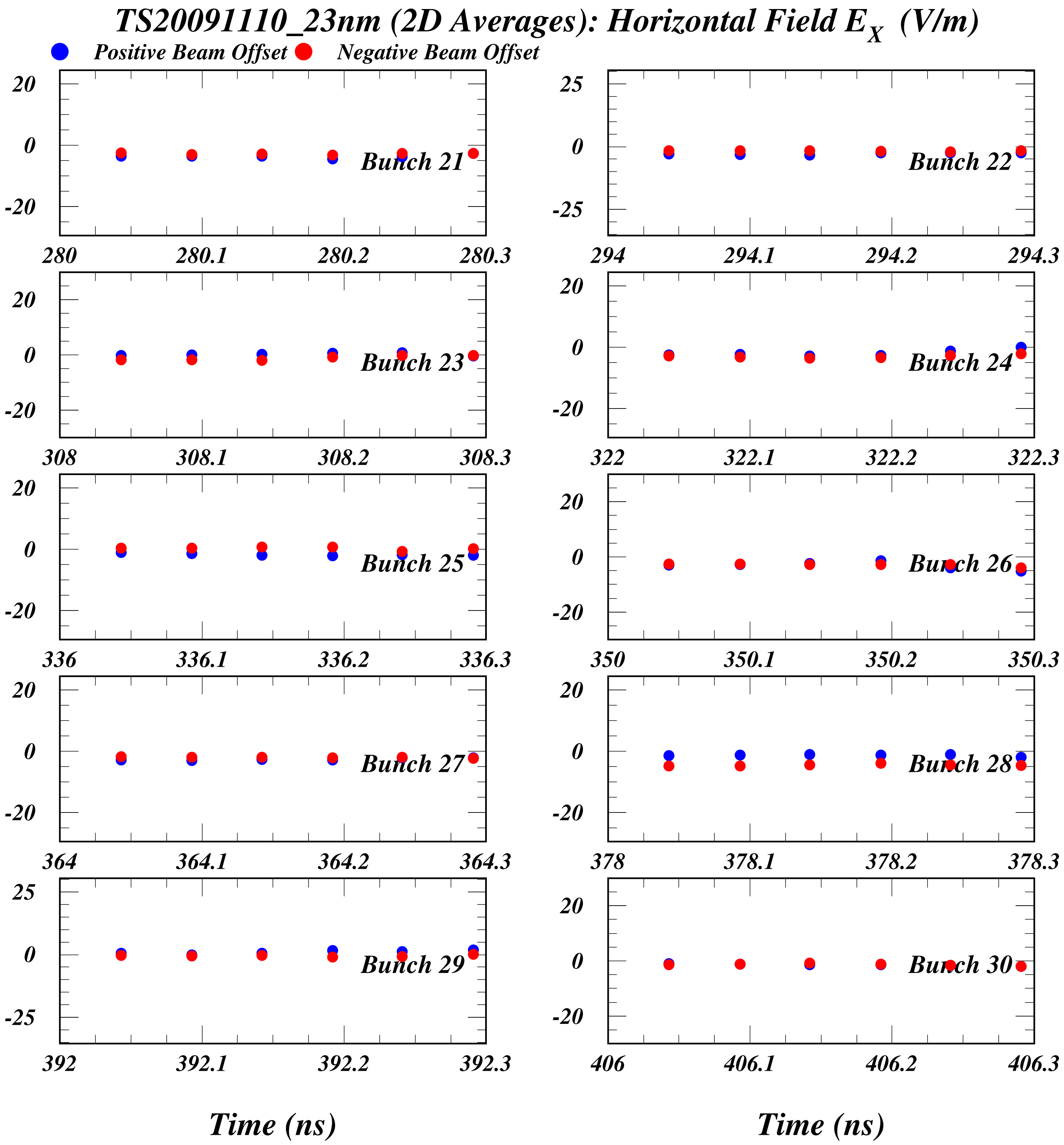


TS20091110_23nm (2D Averages): Field Gradient dE_Y/dY (V/m^2)

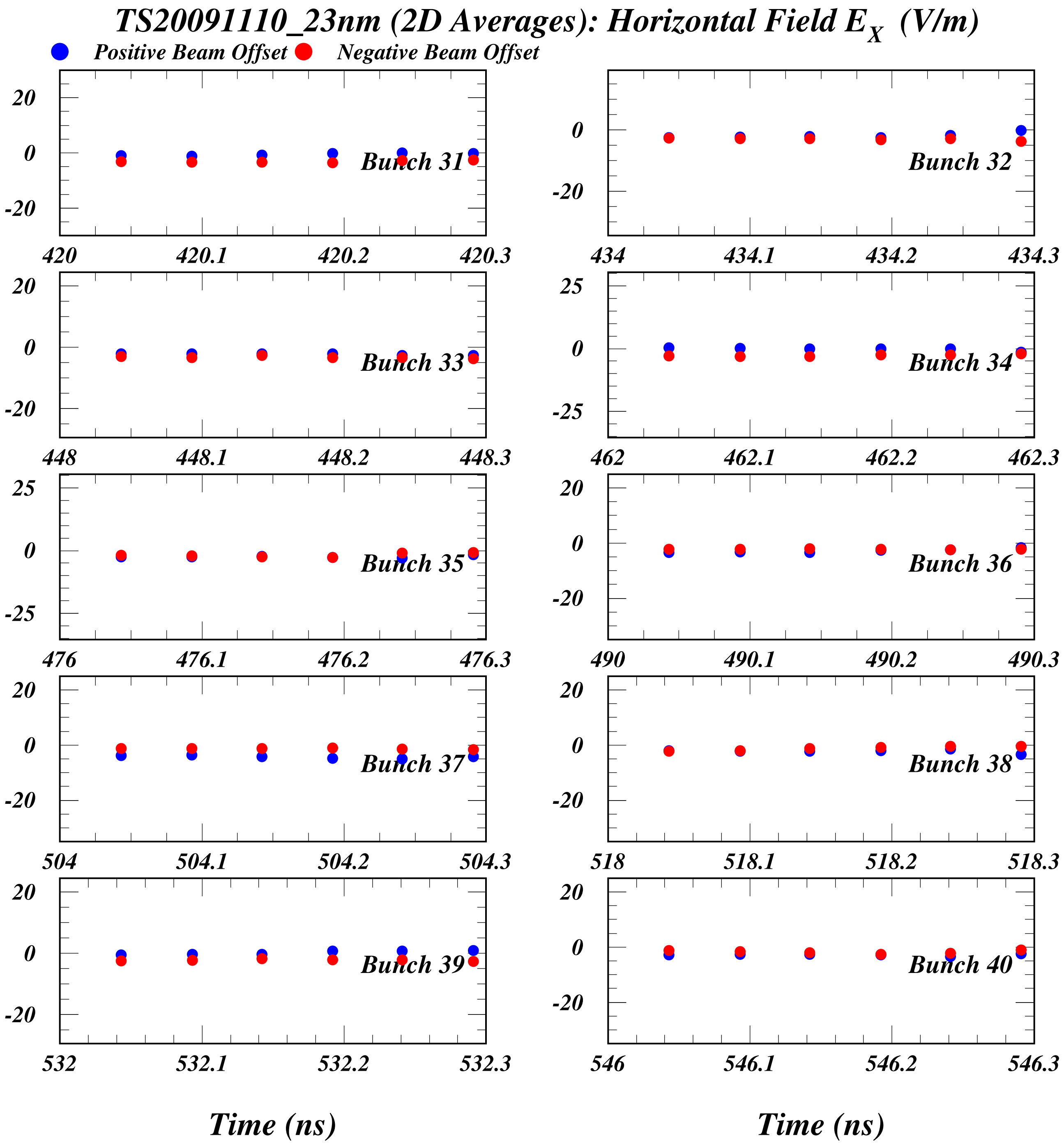



TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10
Time (ns)
Time (ns)

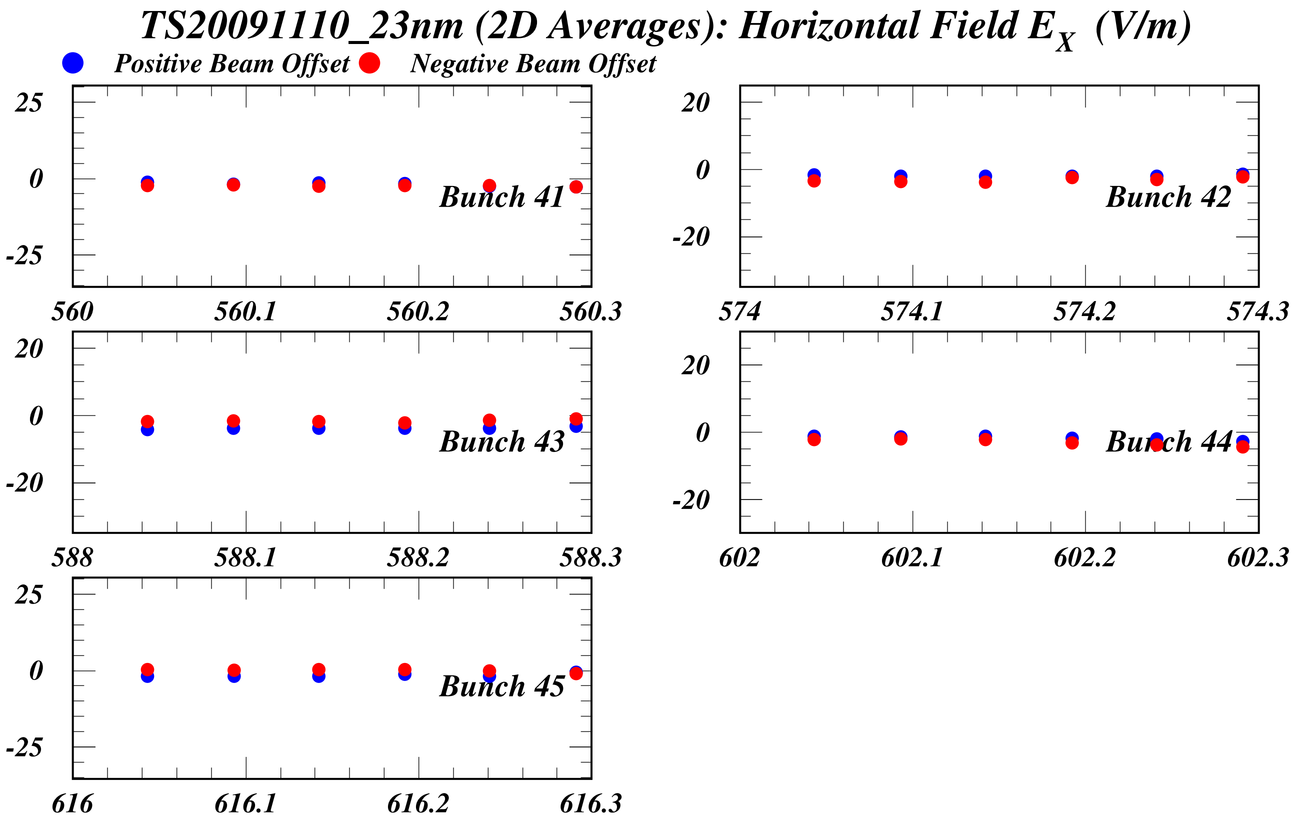

TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20
Time (ns)
Time (ns)



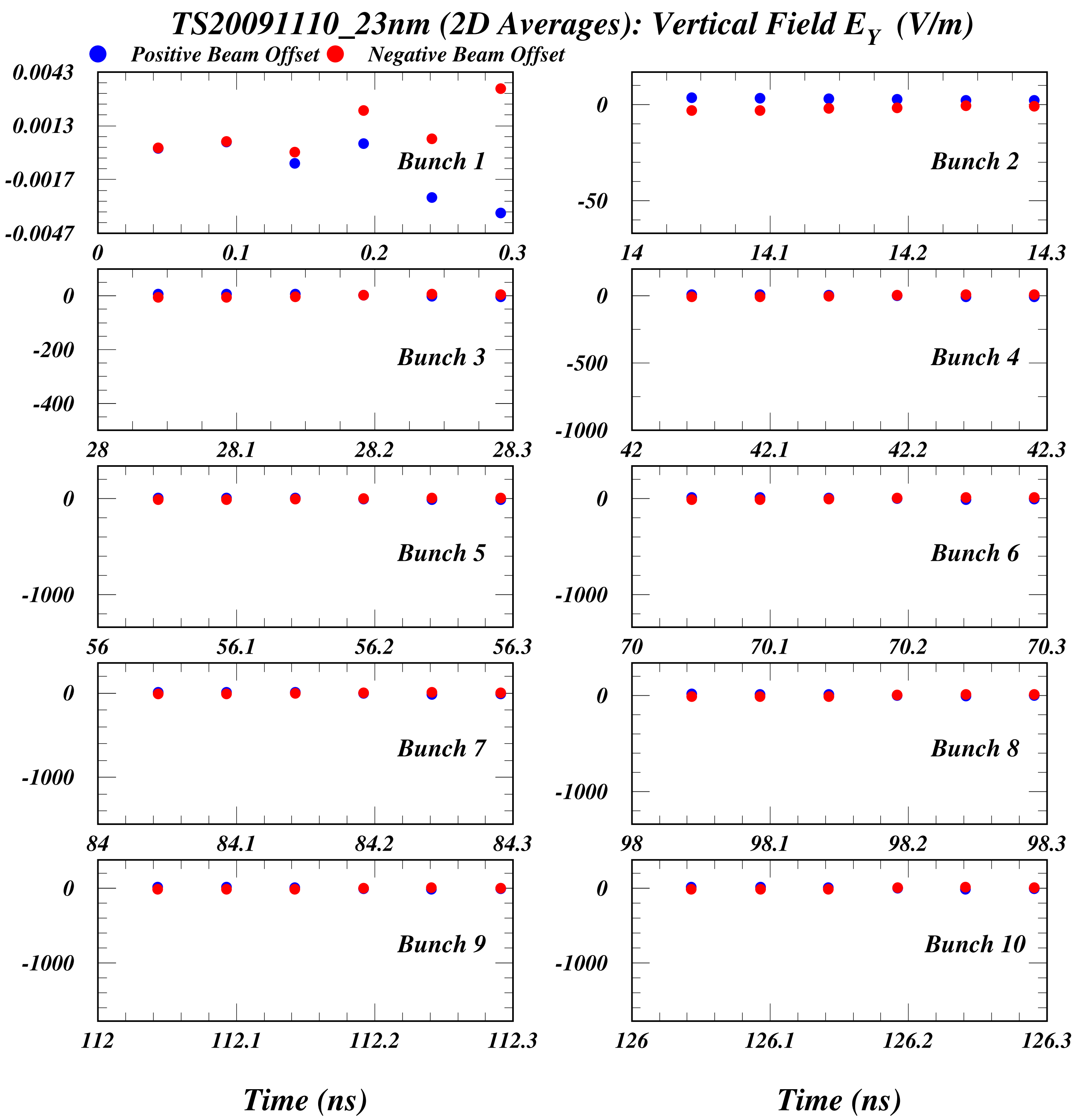
TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)



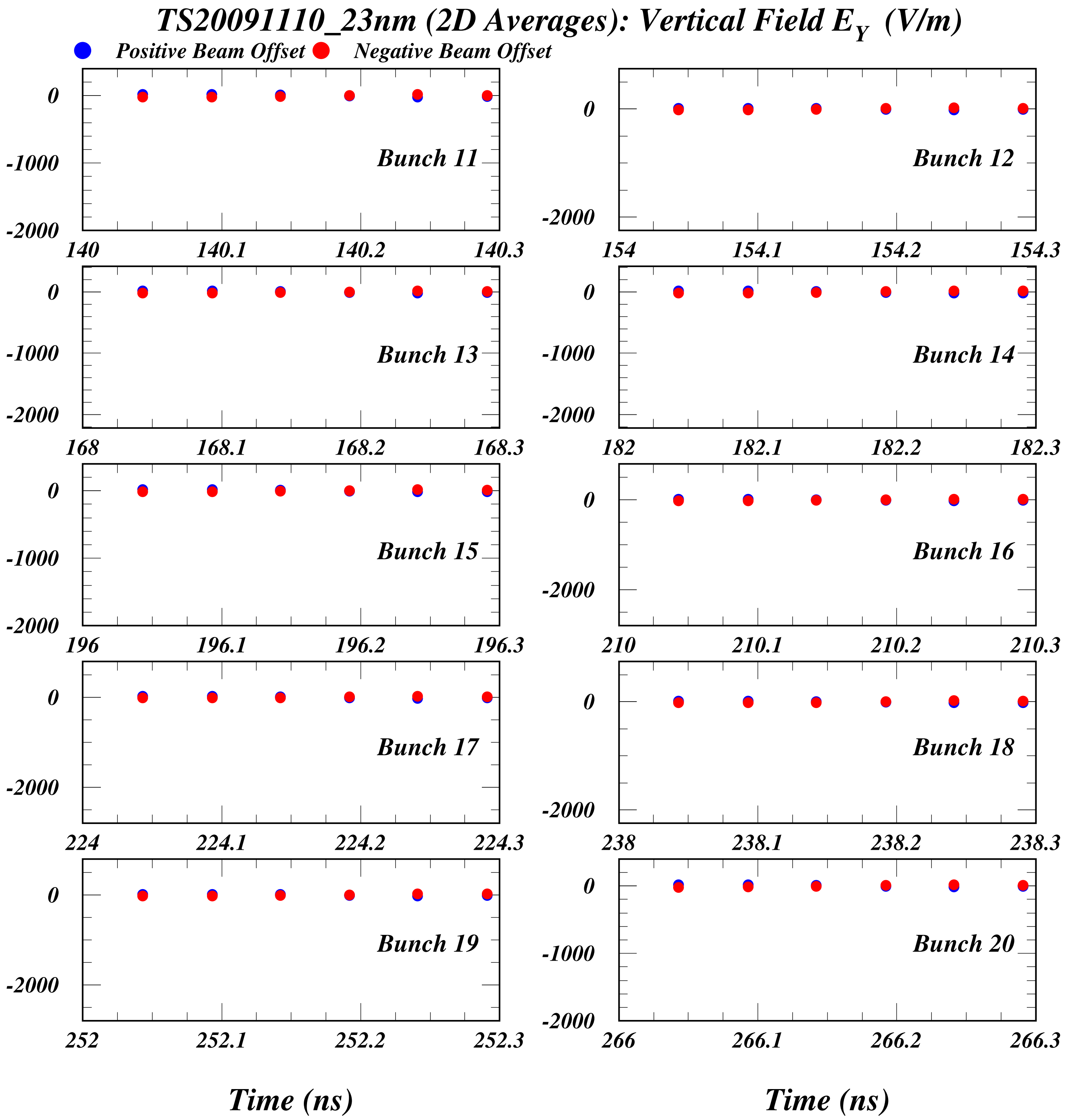
TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 31
Bunch 32
Bunch 33
Bunch 34
Bunch 35
Bunch 36
Bunch 37
Bunch 38
Bunch 39
Bunch 40
Time (ns)
Time (ns)

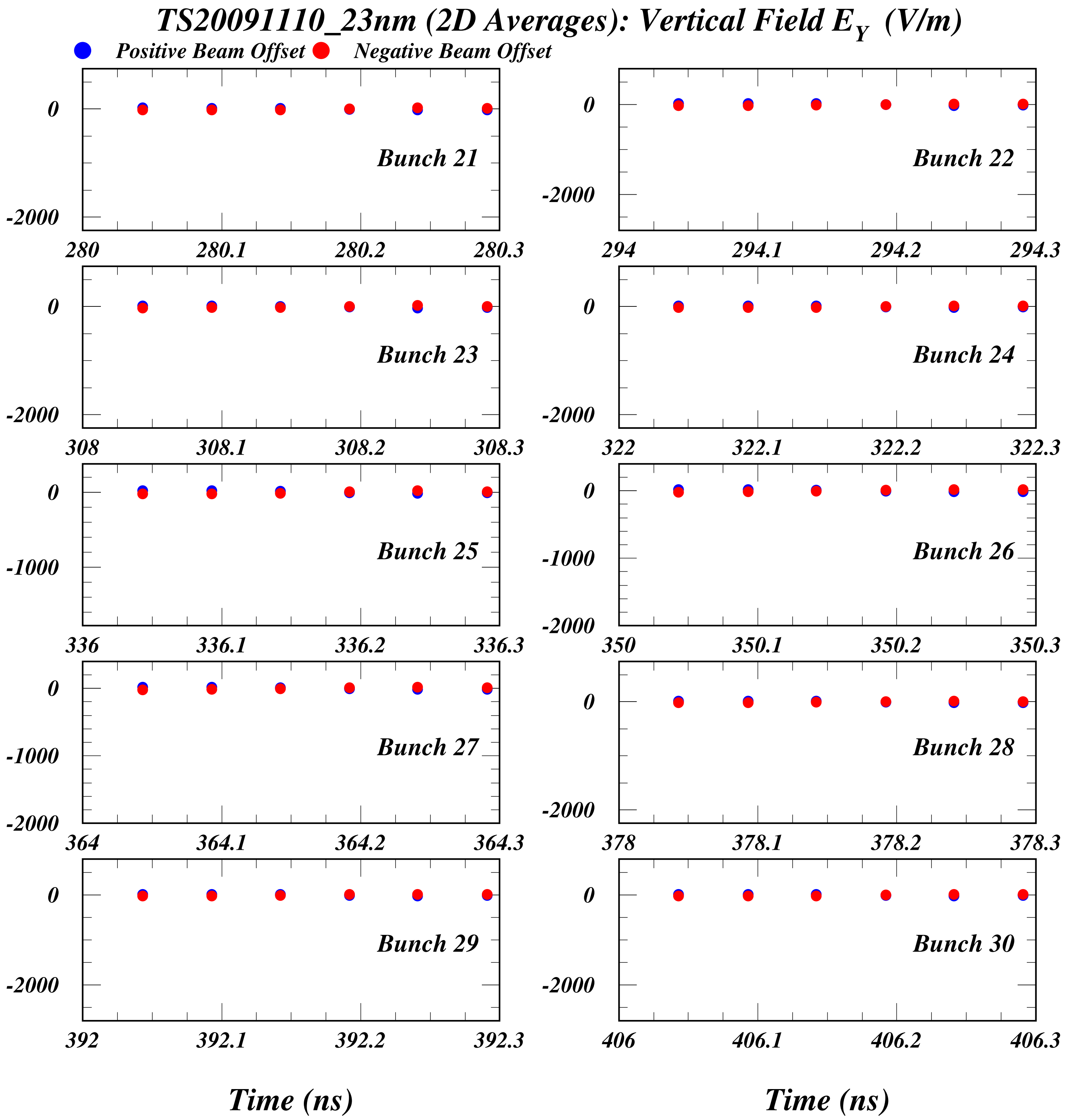


TS20091110_23nm (2D Averages): Horizontal Field E_X (V/m)
Positive Beam Offset
Negative Beam Offset
25
0
-25
560
560.1
560.2
560.3
Bunch 41
20
0
-20
574
574.1
574.2
574.3
Bunch 42
20
0
-20
588
588.1
588.2
588.3
Bunch 43
20
0
-20
602
602.1
602.2
602.3
Bunch 44
25
0
-25
616
616.1
616.2
616.3
Bunch 45

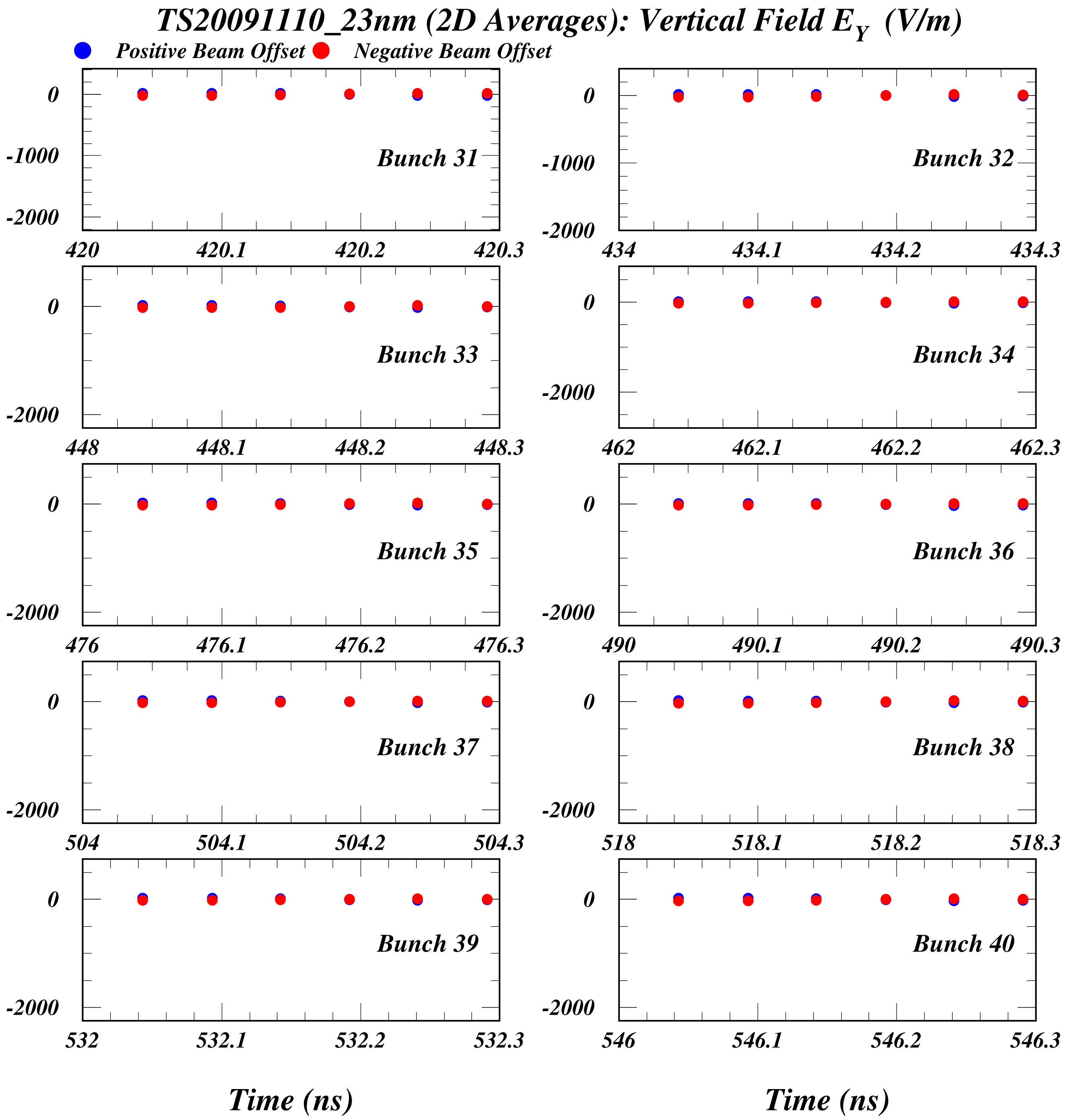


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 1
Bunch 2
Bunch 3
Bunch 4
Bunch 5
Bunch 6
Bunch 7
Bunch 8
Bunch 9
Bunch 10
Time (ns)
Time (ns)


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 11
Bunch 12
Bunch 13
Bunch 14
Bunch 15
Bunch 16
Bunch 17
Bunch 18
Bunch 19
Bunch 20
0
-1000
-2000
140
140.1
140.2
140.3
154
154.1
154.2
154.3
168
168.1
168.2
168.3
182
182.1
182.2
182.3
196
196.1
196.2
196.3
210
210.1
210.2
210.3
224
224.1
224.2
224.3
238
238.1
238.2
238.3
252
252.1
252.2
252.3
266
266.1
266.2
266.3
Time (ns)
Time (ns)

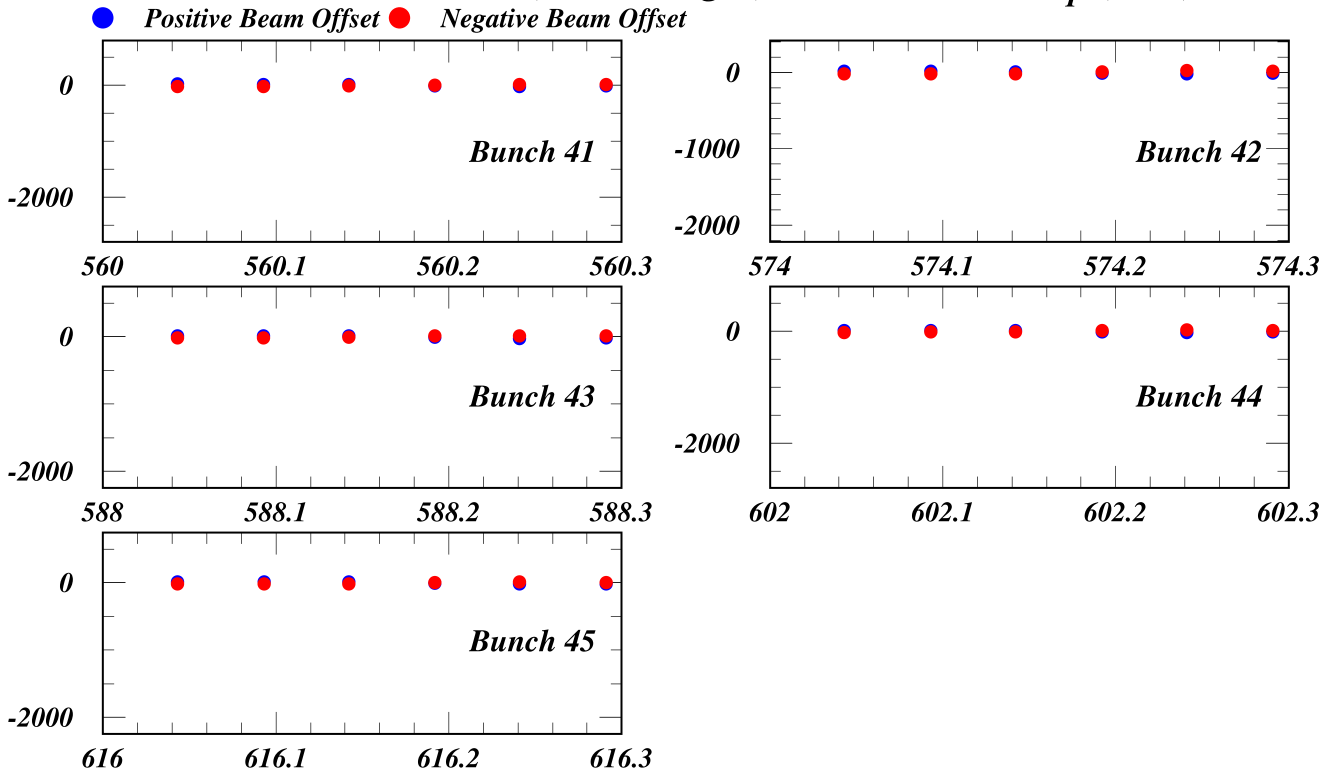


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 21
Bunch 22
Bunch 23
Bunch 24
Bunch 25
Bunch 26
Bunch 27
Bunch 28
Bunch 29
Bunch 30
Time (ns)
Time (ns)

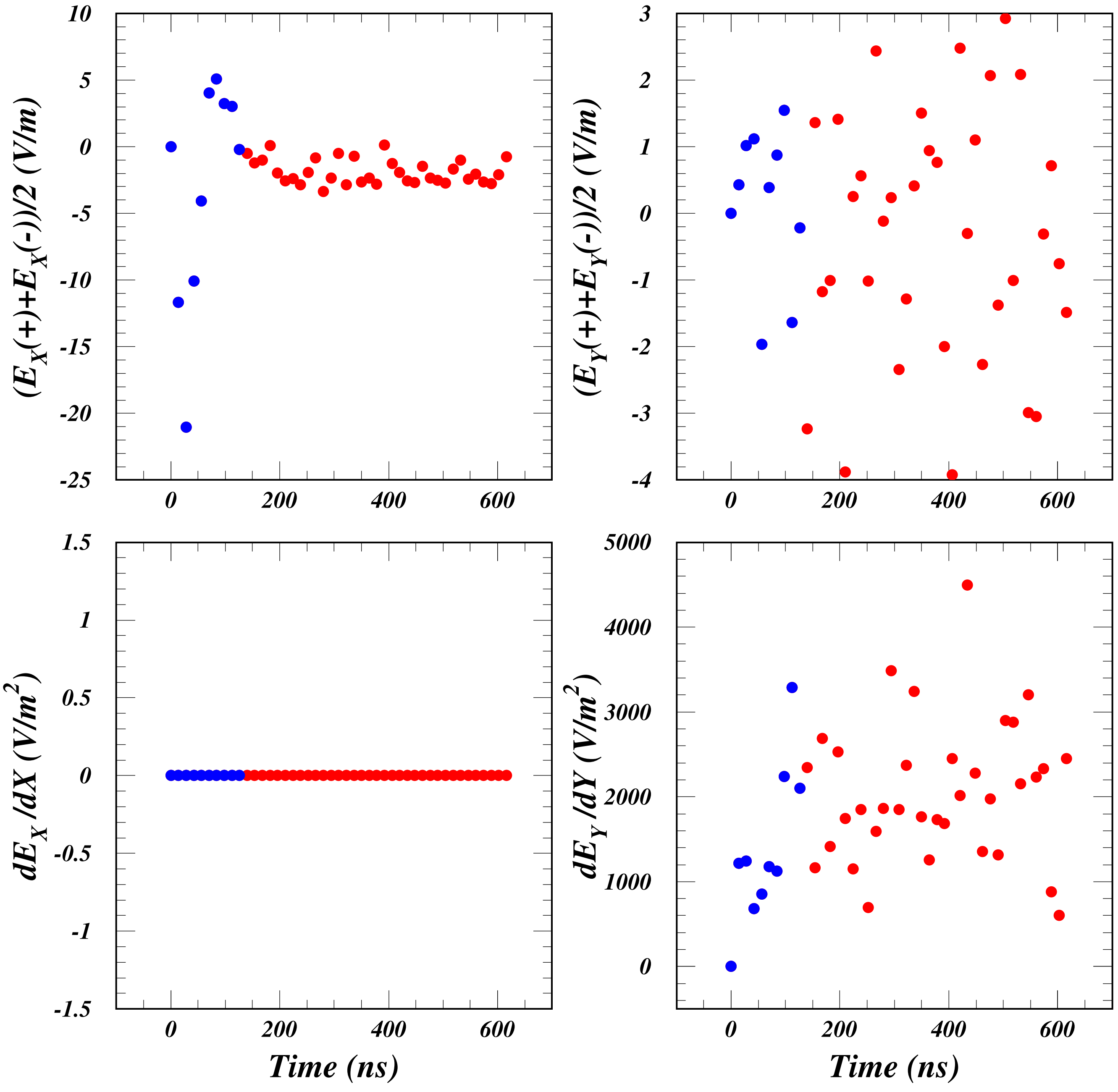


TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)
Positive Beam Offset
Negative Beam Offset
Bunch 31
Bunch 32
Bunch 33
Bunch 34
Bunch 35
Bunch 36
Bunch 37
Bunch 38
Bunch 39
Bunch 40
0
-1000
-2000
420
420.1
420.2
420.3
434
434.1
434.2
434.3
448
448.1
448.2
448.3
462
462.1
462.2
462.3
476
476.1
476.2
476.3
490
490.1
490.2
490.3
504
504.1
504.2
504.3
518
518.1
518.2
518.3
532
532.1
532.2
532.3
546
546.1
546.2
546.3
Time (ns)
Time (ns)

TS20091110_23nm (2D Averages): Vertical Field E_Y (V/m)



TS20091110_23nm (3D Averages): Electric Field and Gradients at X=Y=0



TS20091110_23nm (3D Averages): Electric Field at Beam (V/m)