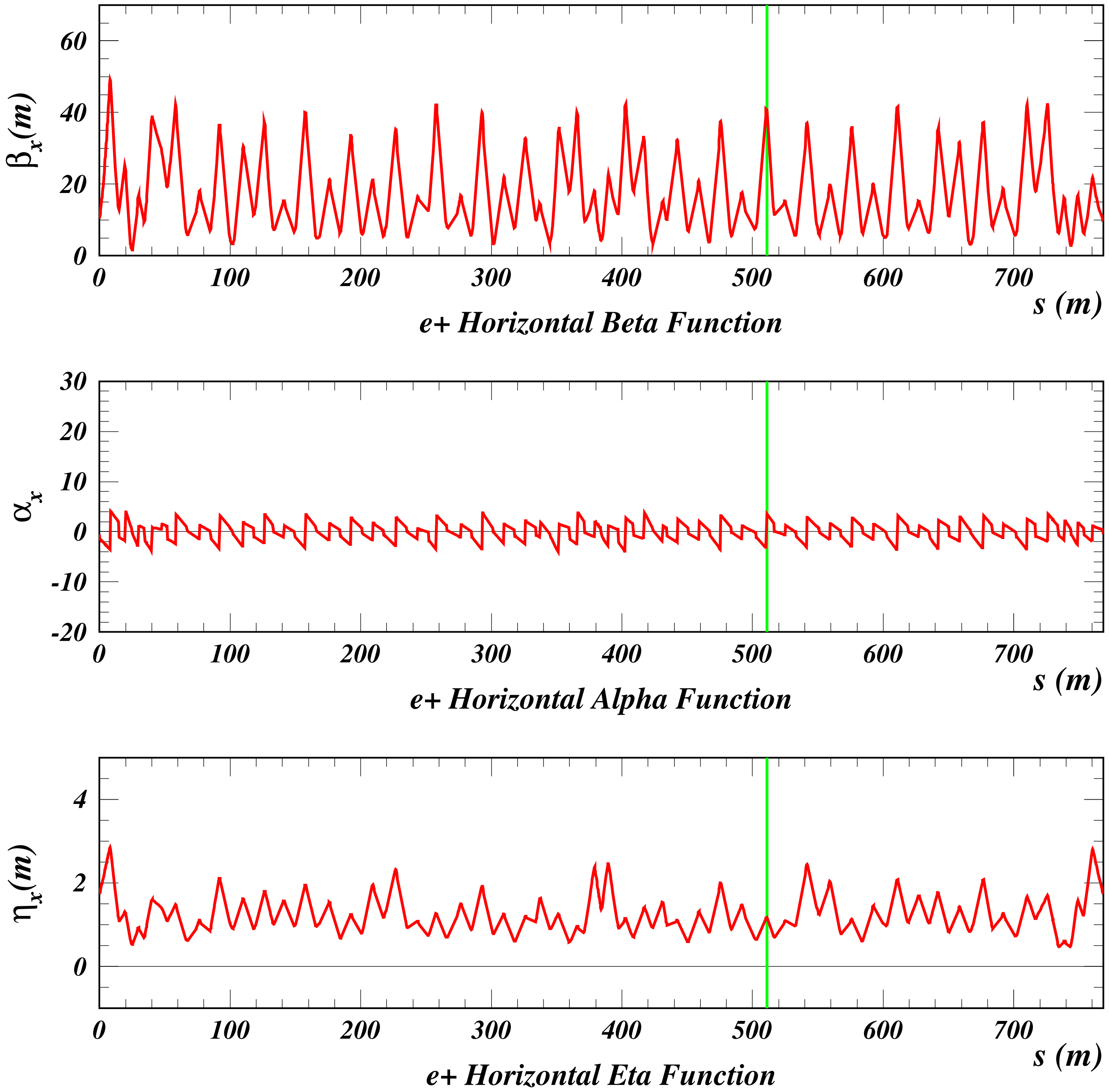
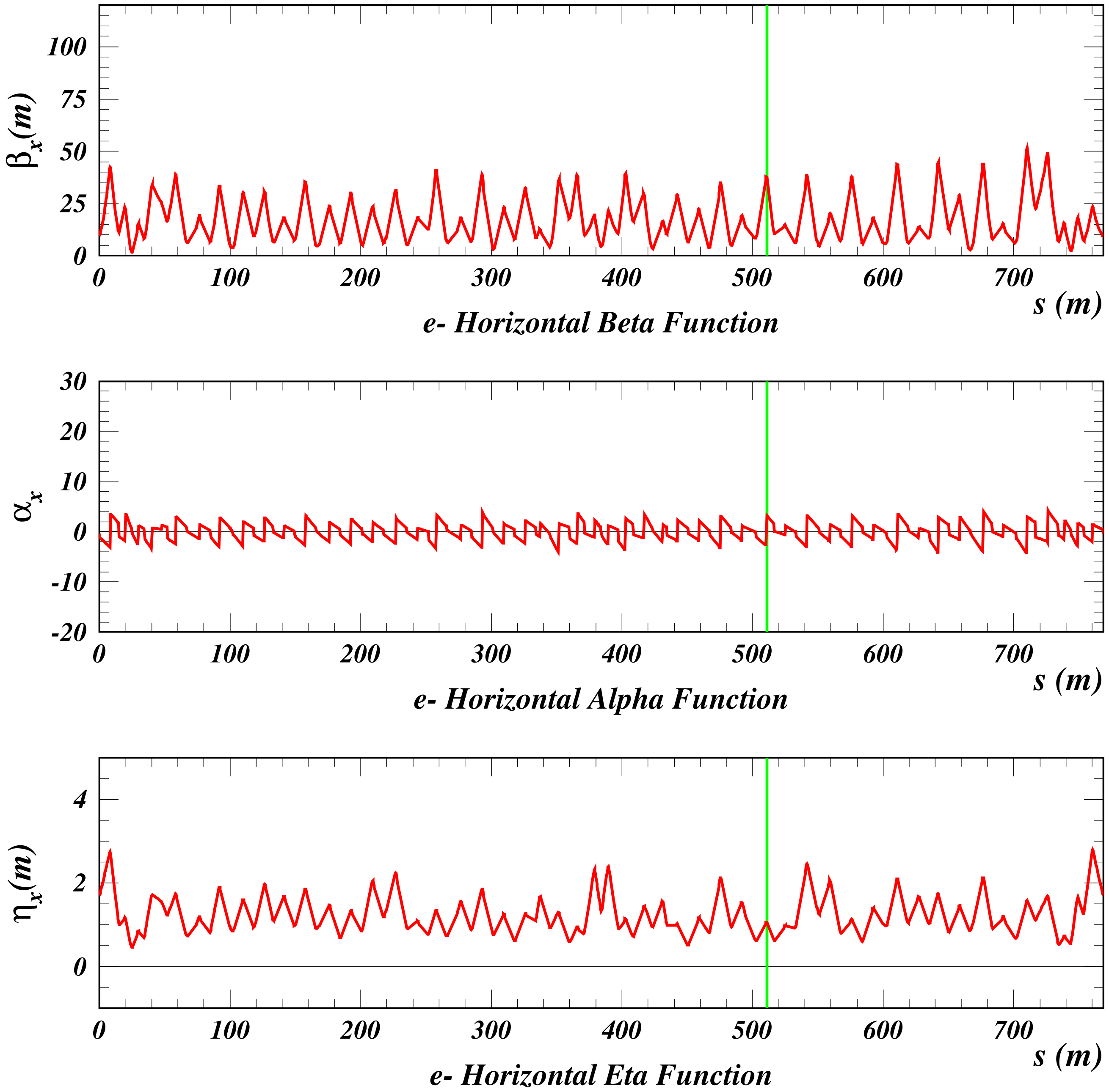
09/12/14   13.33

job_1963: Positron Twiss and Dispersion (BBI off, PRETZEL off)

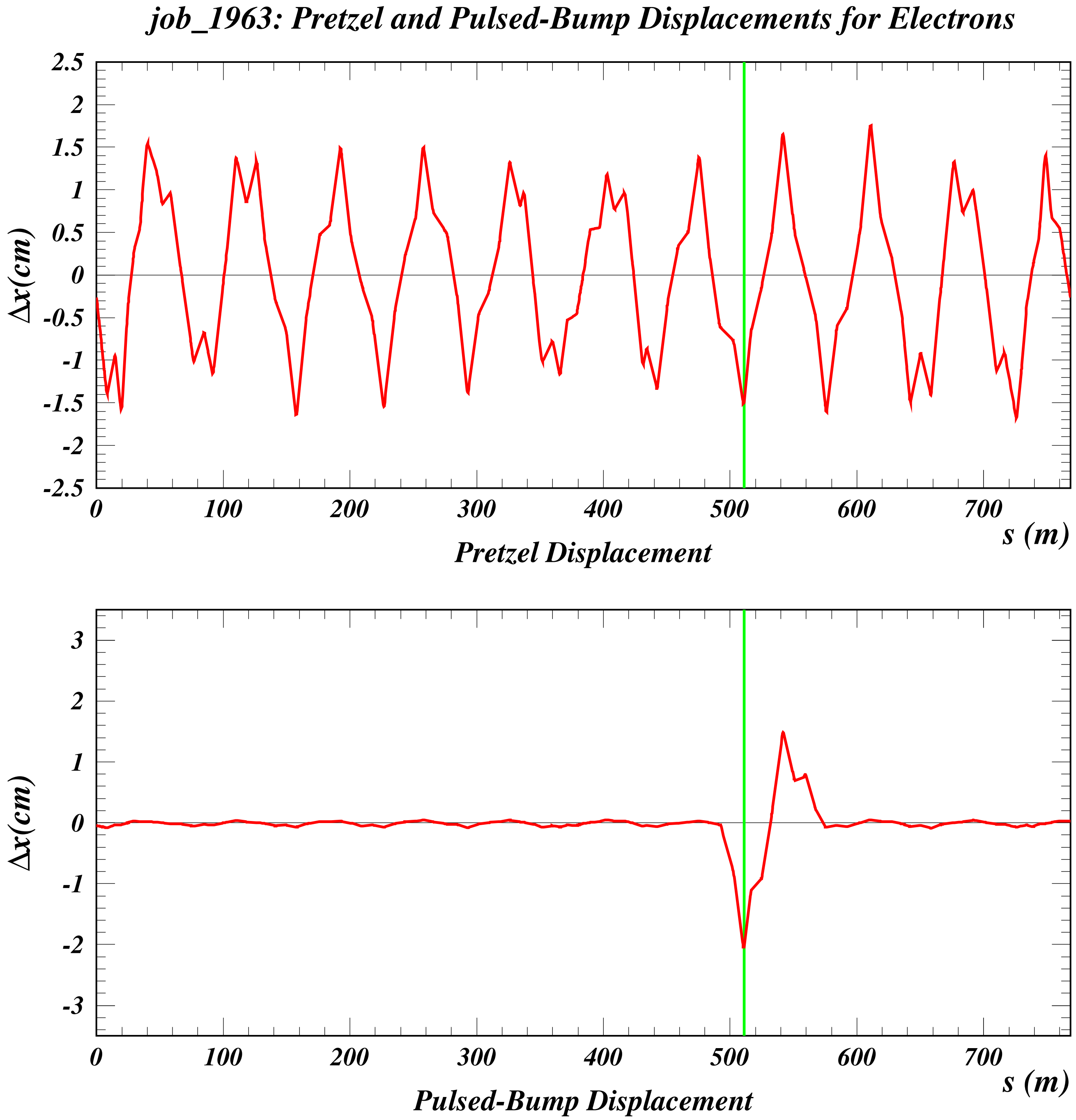


09/12/14 13.33

job_1963: Electron Twiss and Dispersion (BBI on, PRETZEL on)

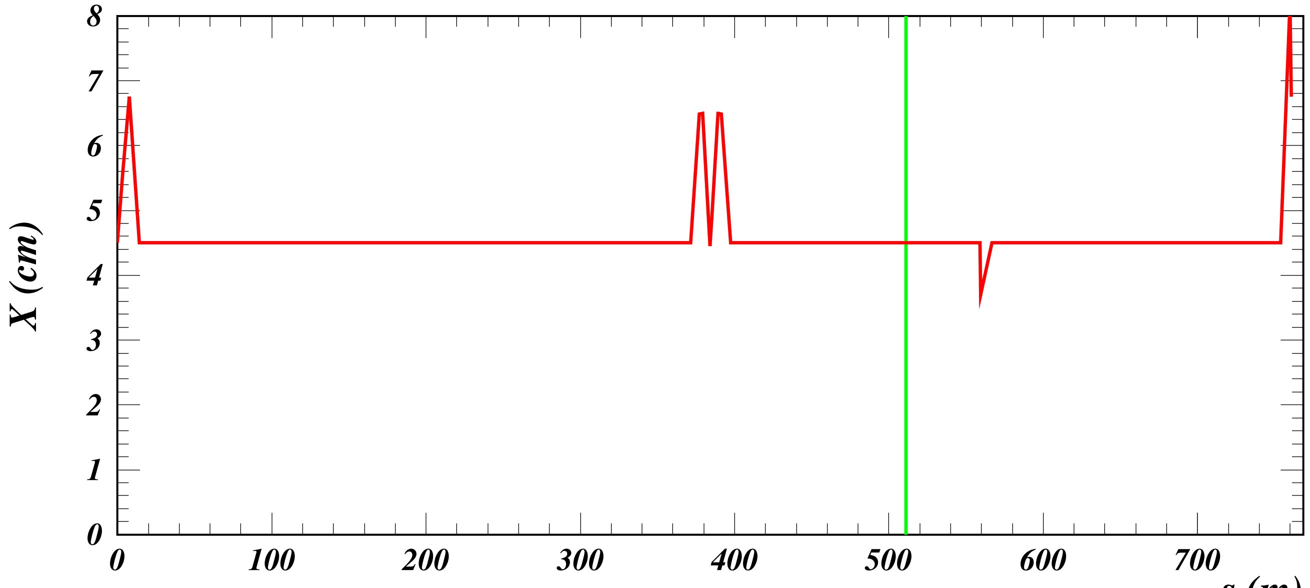


09/12/14 13.33

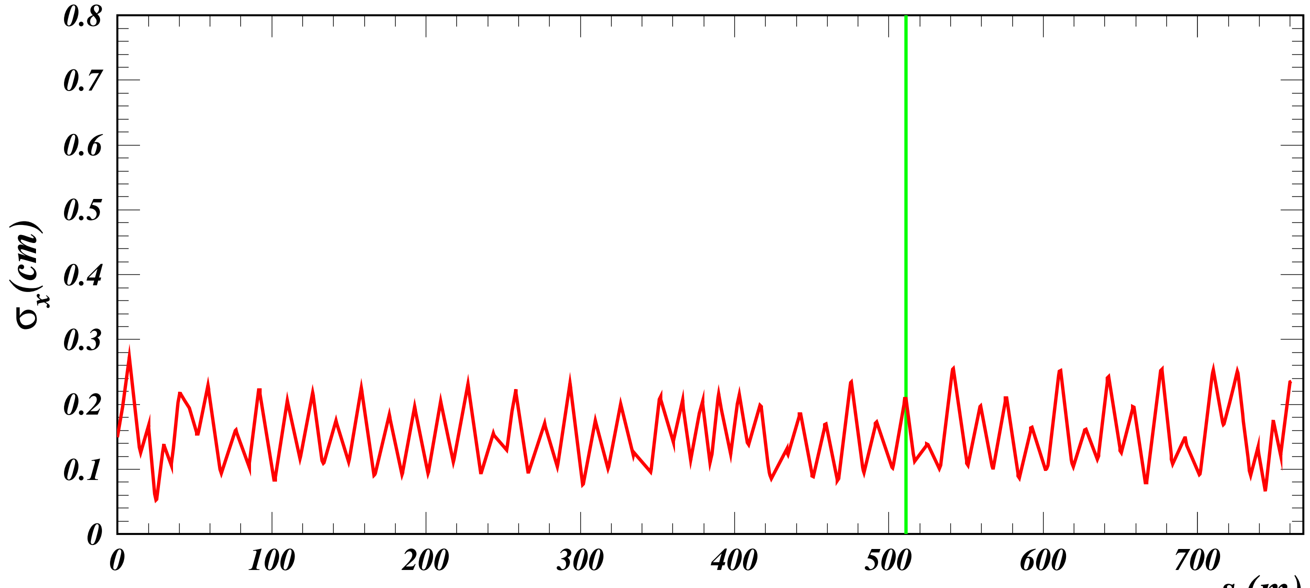

job_1963: Pretzel and Pulsed-Bump Displacements for Electrons
2.5
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
Δx(cm)
0
100
200
300
400
500
600
700
s (m)
Pretzel Displacement
3
2
1
0
-1
-2
-3
Δx(cm)
0
100
200
300
400
500
600
700
s (m)
Pulsed-Bump Displacement

09/12/14 13.33

job_1963: Aperture Limits and Horizontal Beam Sizes

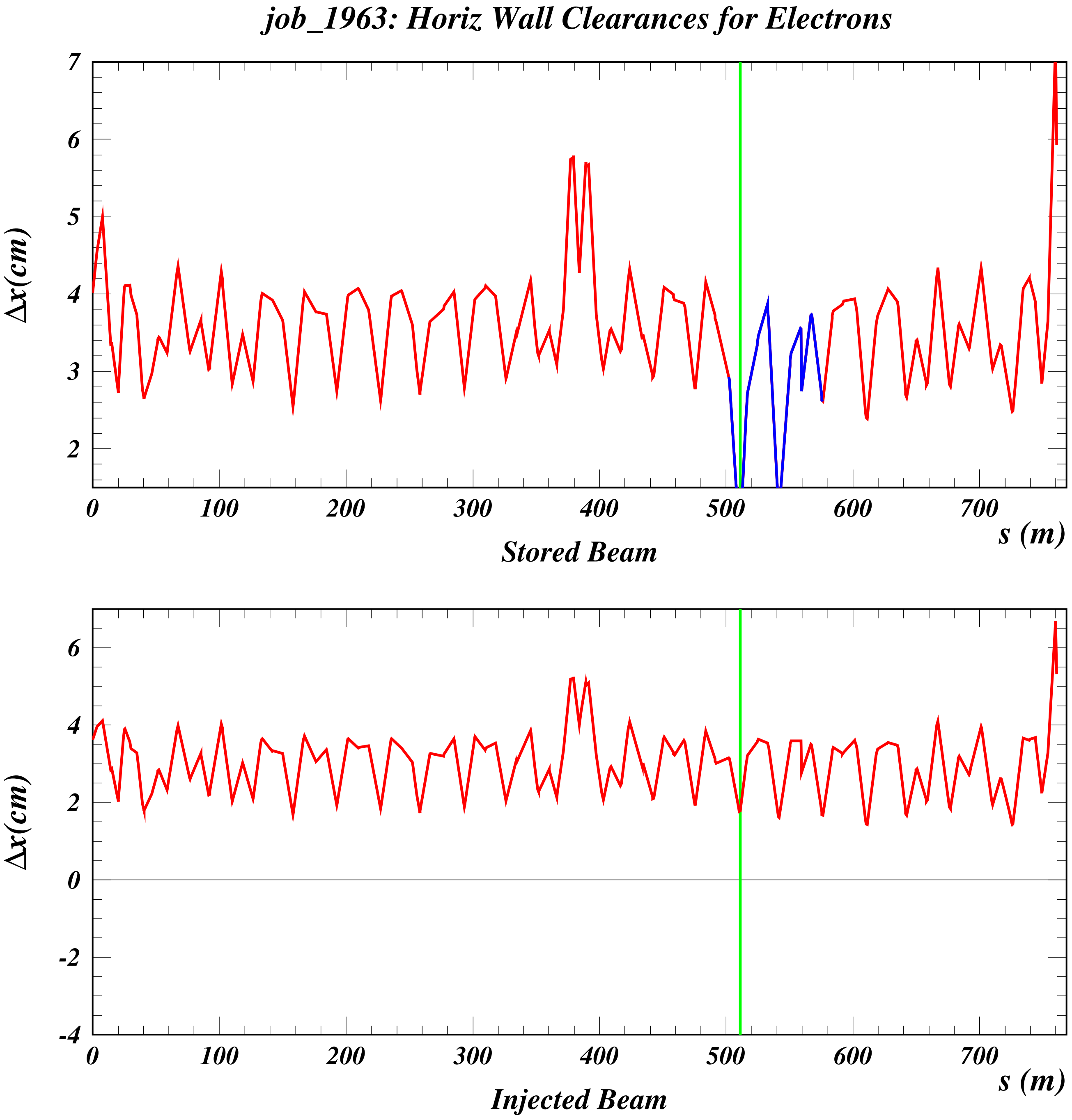


Aperture Limits



Horizontal Beam Size for Stored Electrons

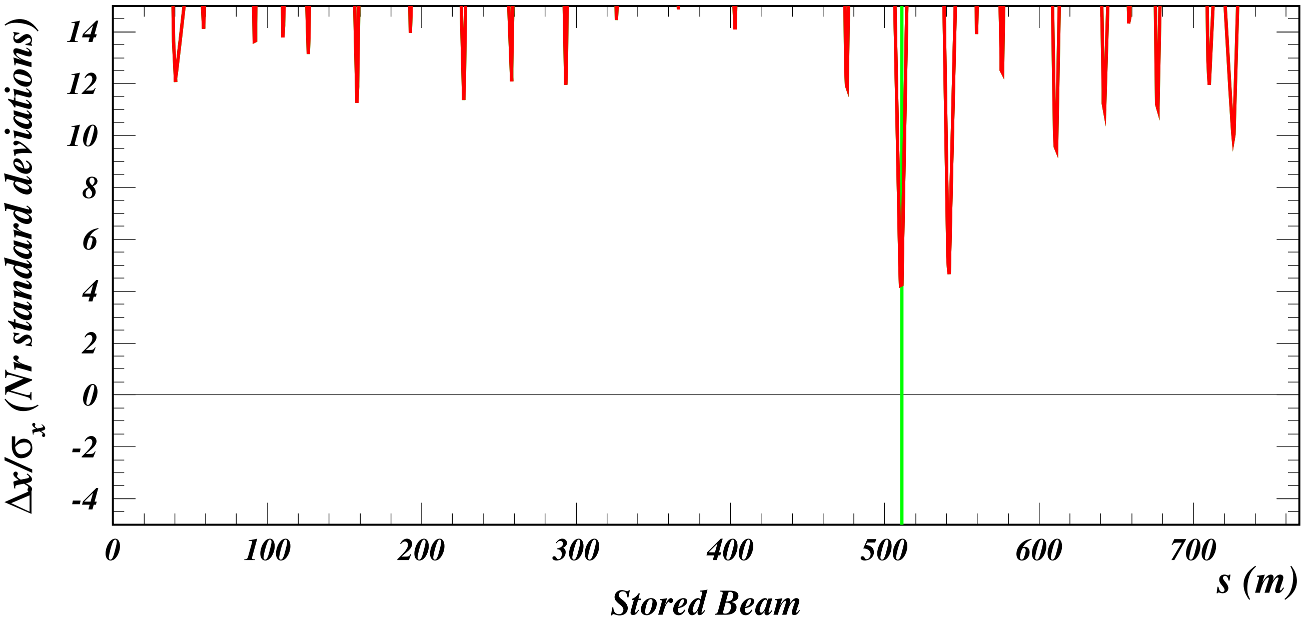
09/12/14 13.33



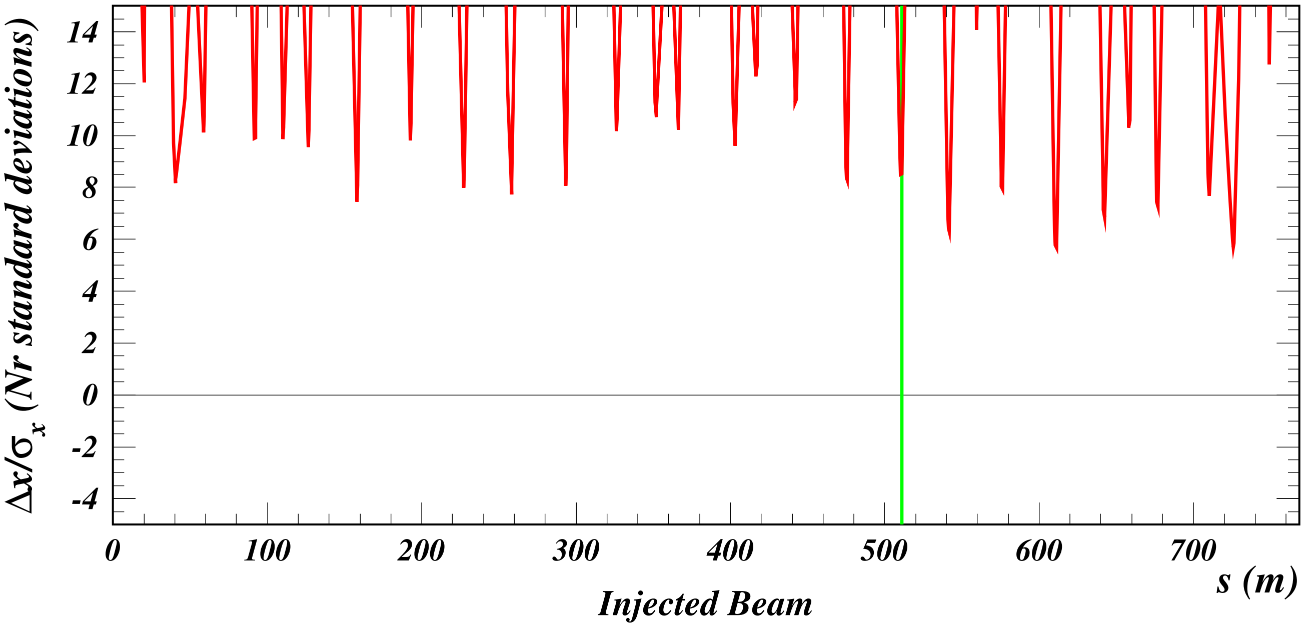
job_1963: Horiz Wall Clearances for Electrons
Δx(cm)
7
6
5
4
3
2
0
100
200
300
400
500
600
700
s (m)
Stored Beam
Δx(cm)
6
4
2
0
-2
-4
0
100
200
300
400
500
600
700
s (m)
Injected Beam

09/12/14 13.33

job_1963: Horiz Wall Clearances for Electrons

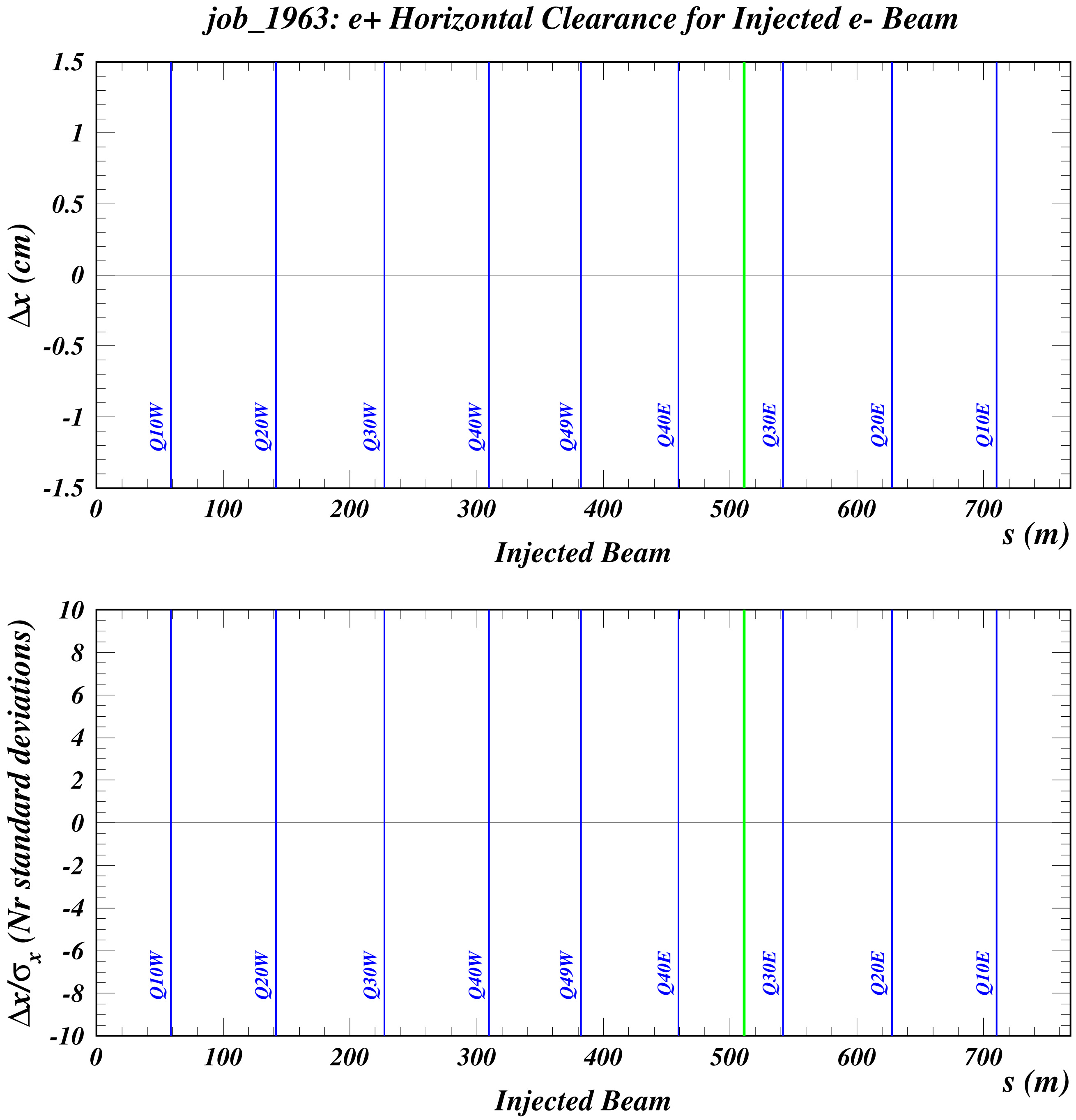


Stored Beam



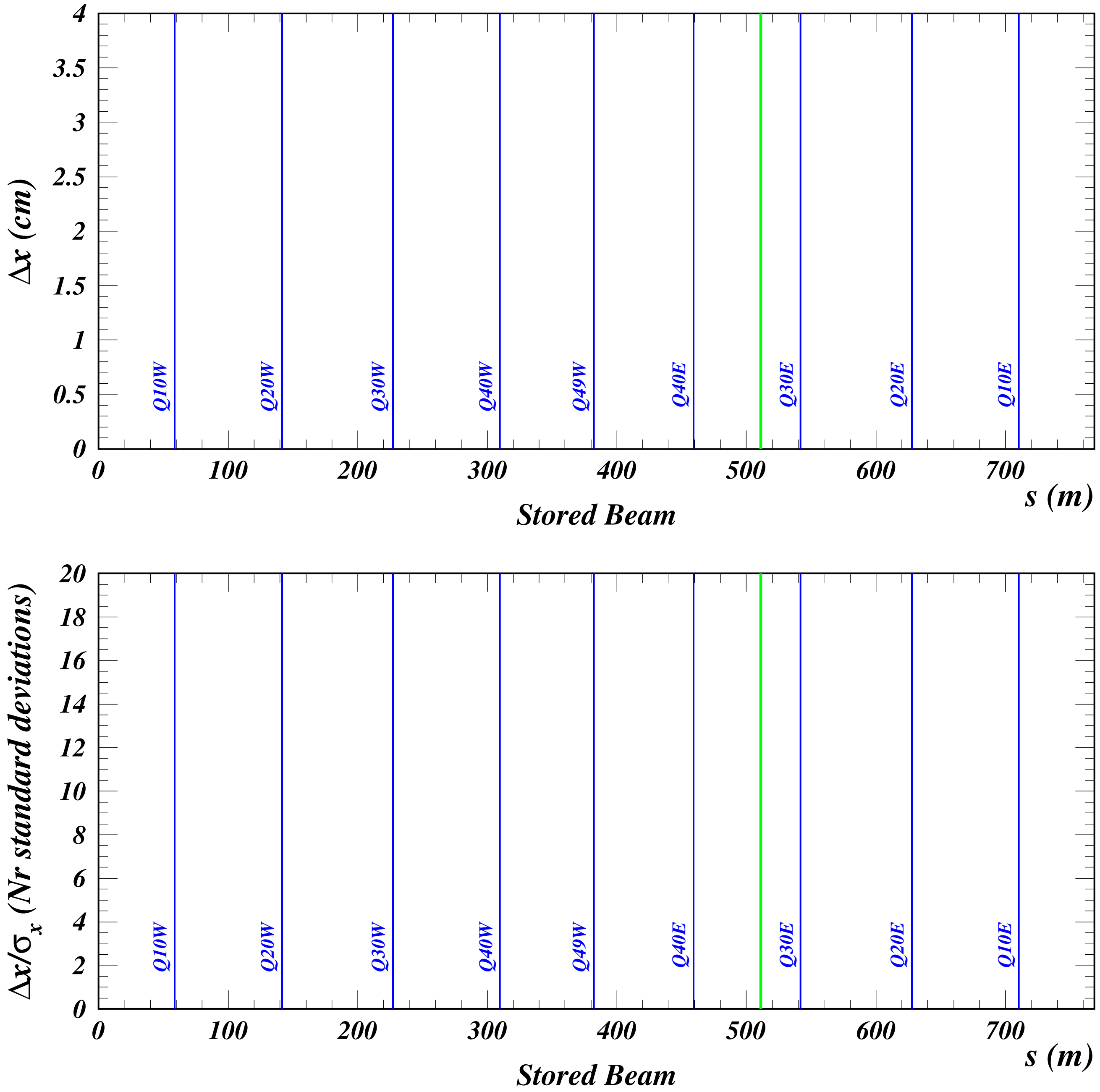
Injected Beam

09/12/14 13.33


job_1963: e+ Horizontal Clearance for Injected e- Beam
Δx (cm)
1.5
1
0.5
0
-0.5
-1
-1.5
Q10W
Q20W
Q30W
Q40W
Q49W
Q40E
Q30E
Q20E
Q10E
0
100
200
300
400
500
600
700
s (m)
Injected Beam
Δx/σx (Nr standard deviations)
10
8
6
4
2
0
-2
-4
-6
-8
-10
Q10W
Q20W
Q30W
Q40W
Q49W
Q40E
Q30E
Q20E
Q10E
0
100
200
300
400
500
600
700
s (m)
Injected Beam

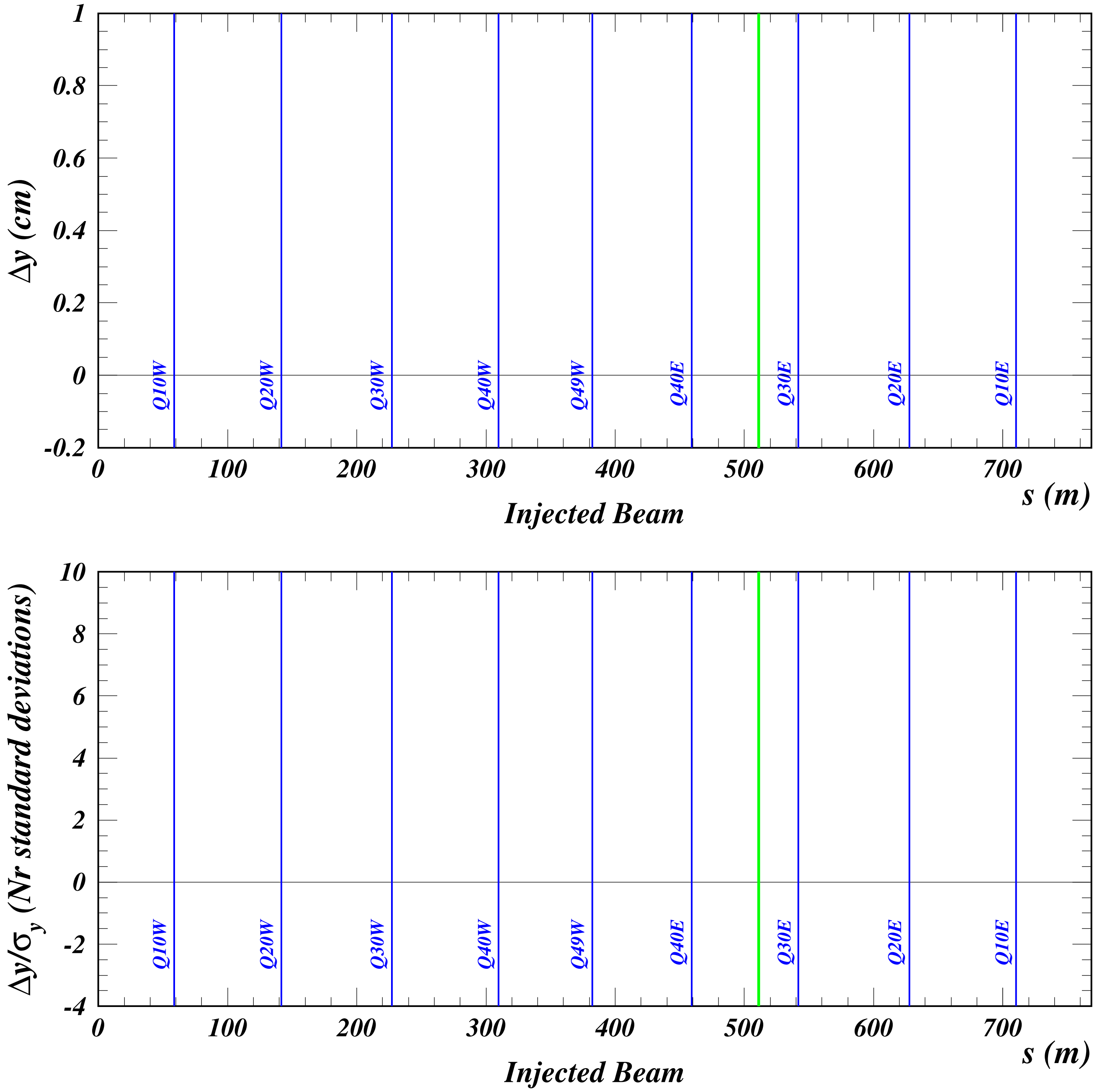
09/12/14 13.33

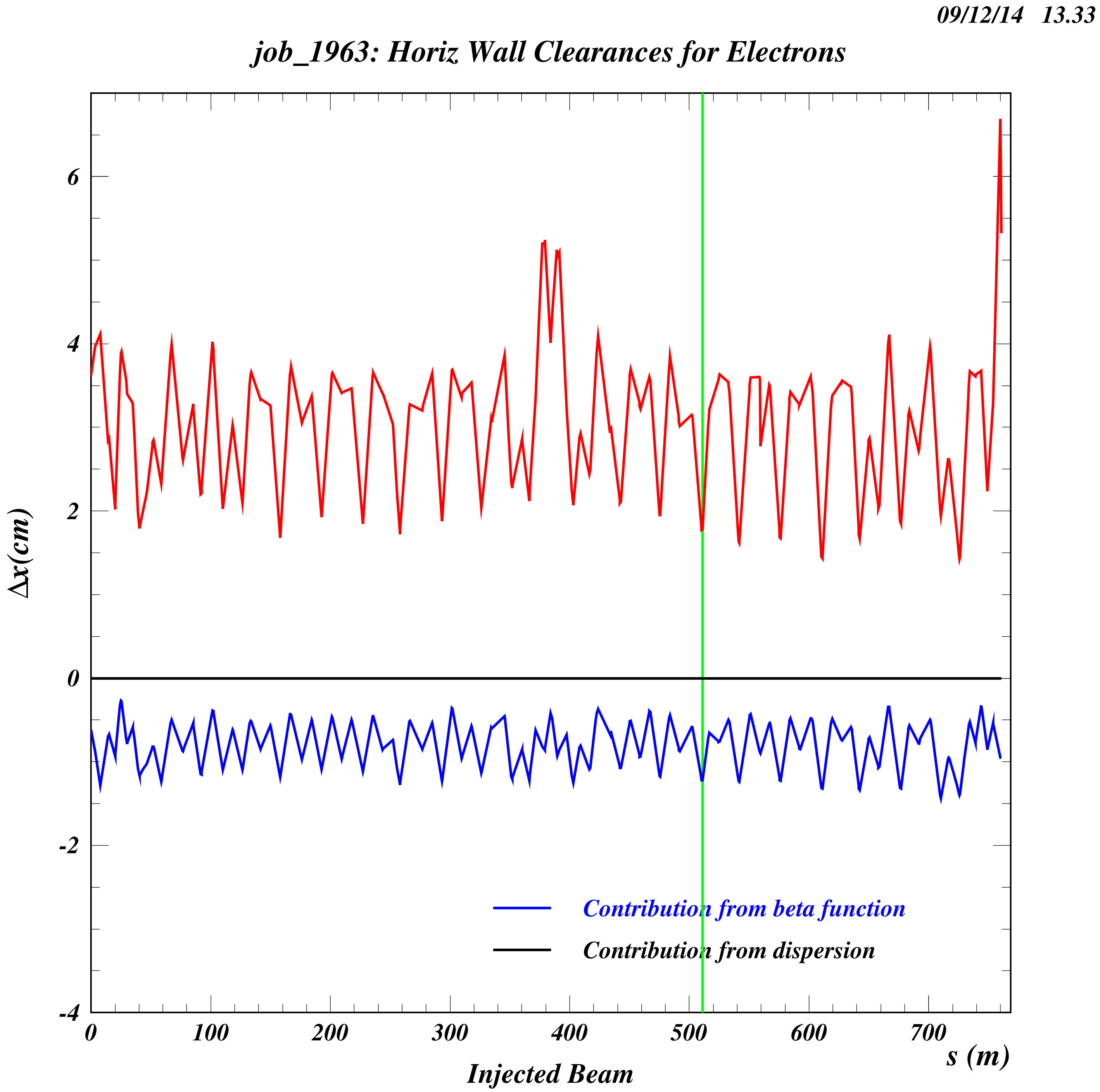
job_1963: e+ Horizontal Clearance for Stored e- Beam



09/12/14 13.33

job_1963: e+ Vertical Clearance for Injected e- Beam




09/12/14 13.33
job_1963: Horiz Wall Clearances for Electrons
Δx(cm)
6
4
2
0
-2
-4
0
100
200
300
400
500
600
700
s (m)
Injected Beam
Contribution from beta function
Contribution from dispersion