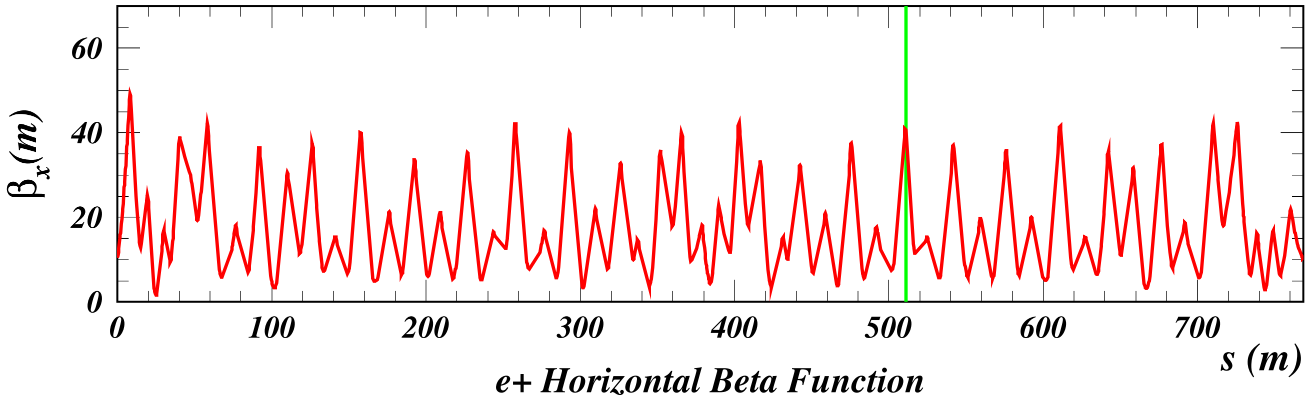
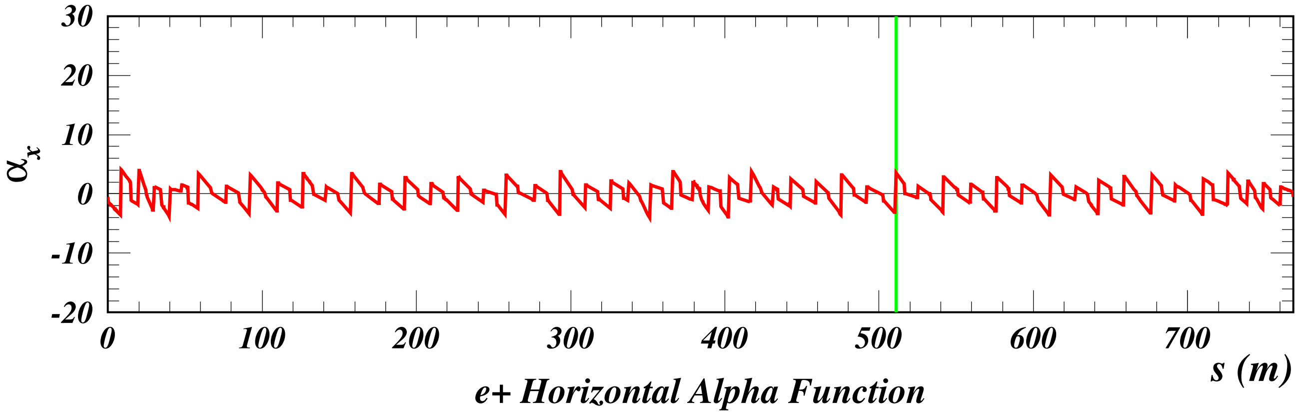
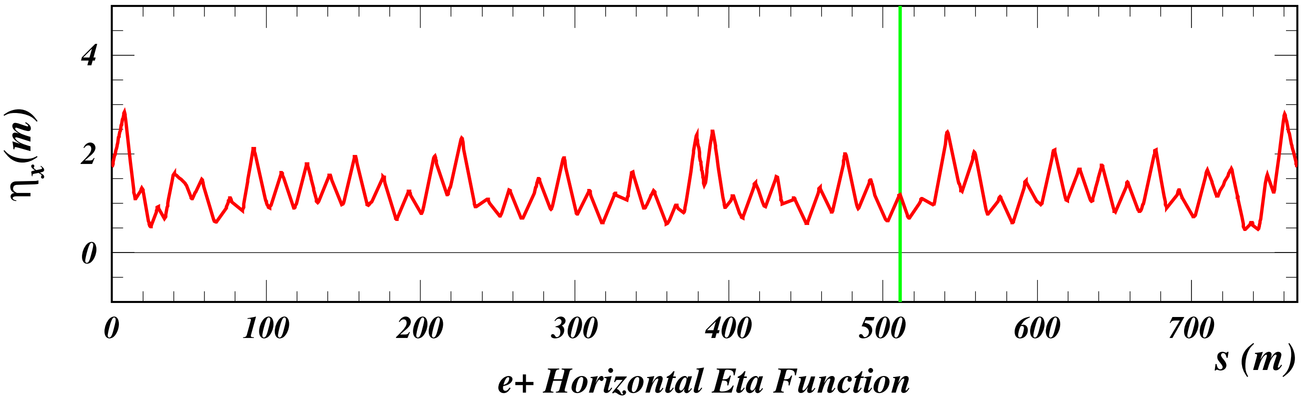
09/12/14 13.33

job_1964: Positron Twiss and Dispersion (BBI off, PRETZEL off)

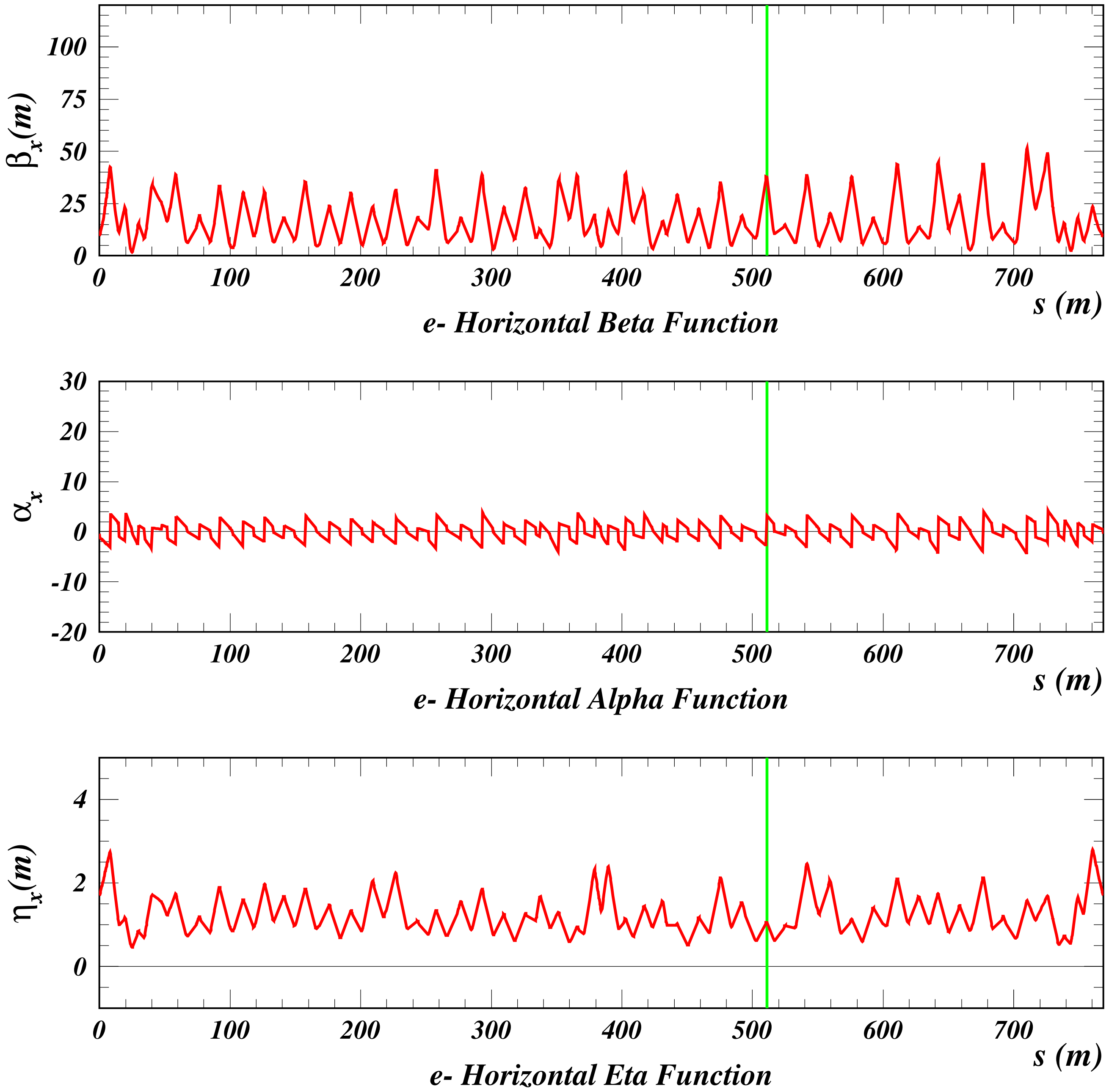






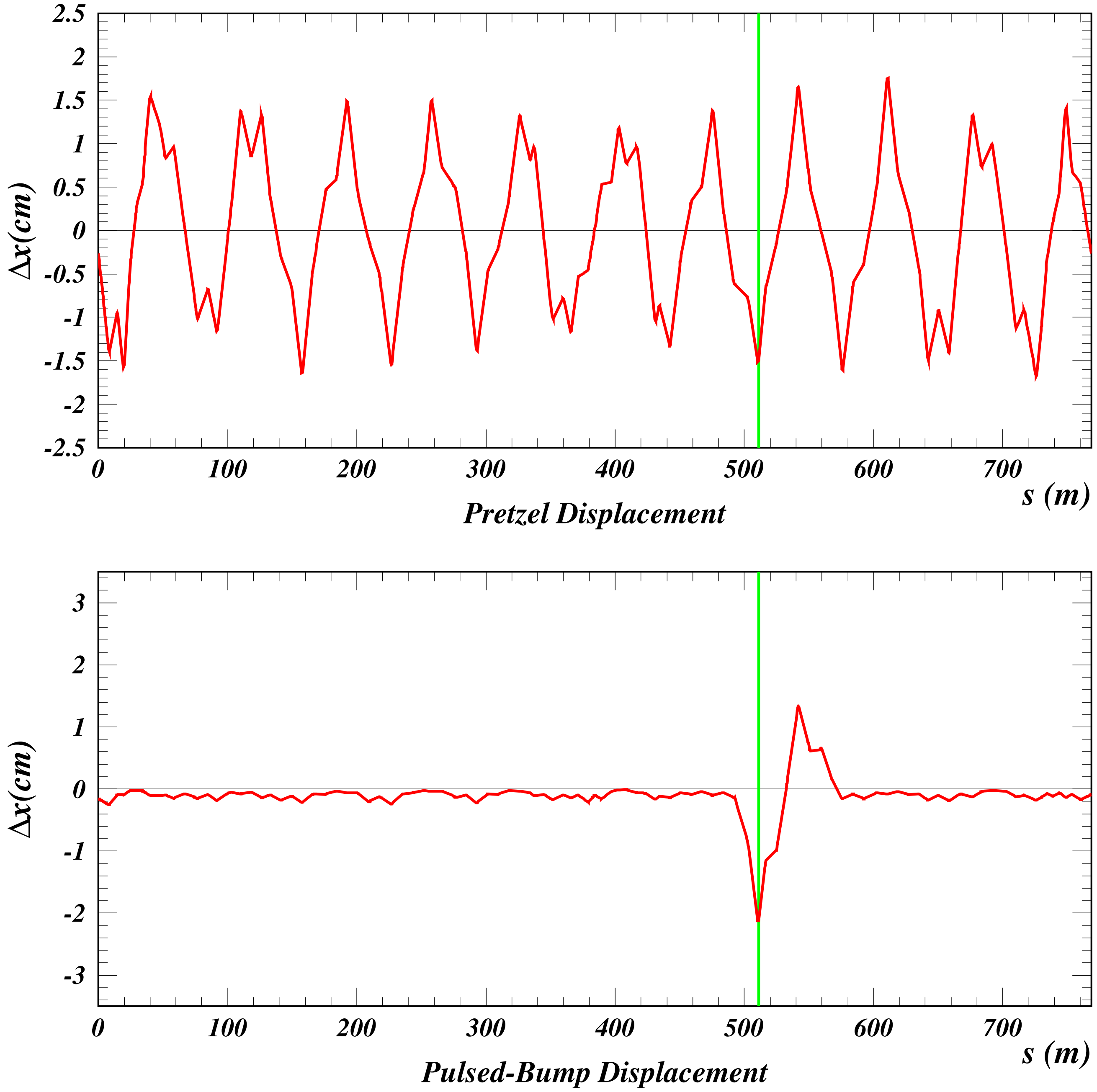
09/12/14 13.33

job_1964: Electron Twiss and Dispersion (BBI on, PRETZEL on)



09/12/14 13.33

job_1964: Pretzel and Pulsed-Bump Displacements for Electrons



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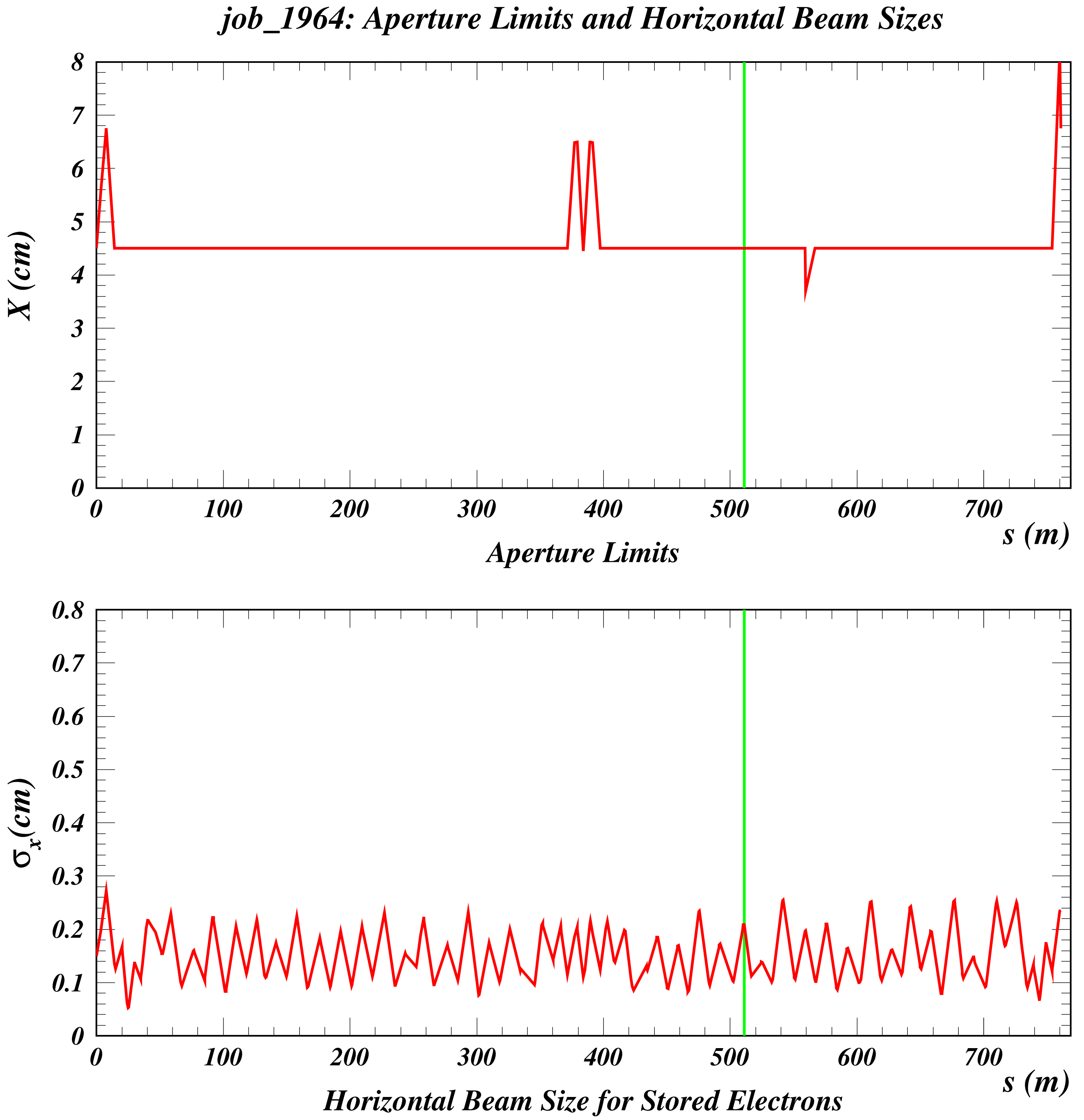
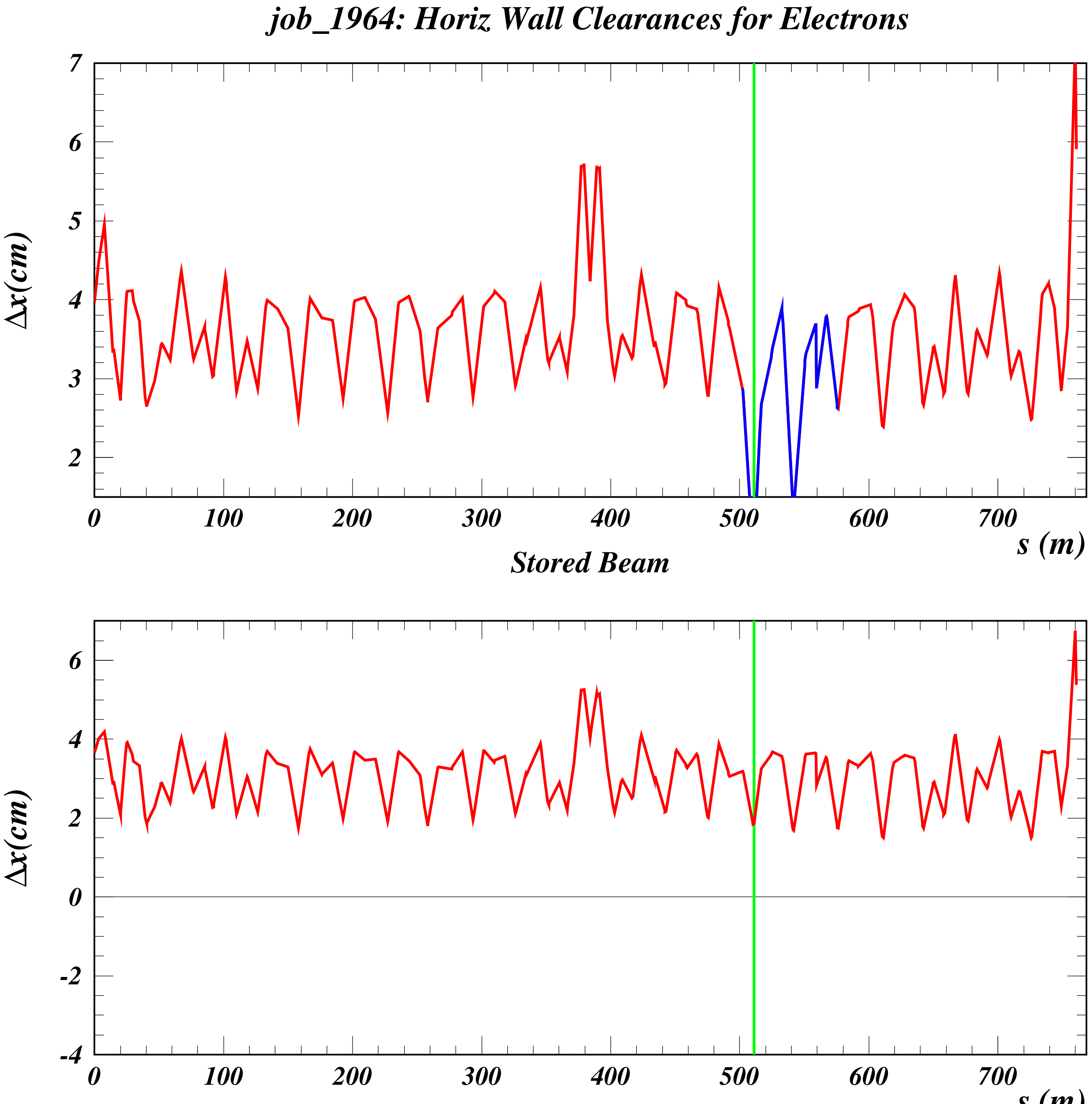
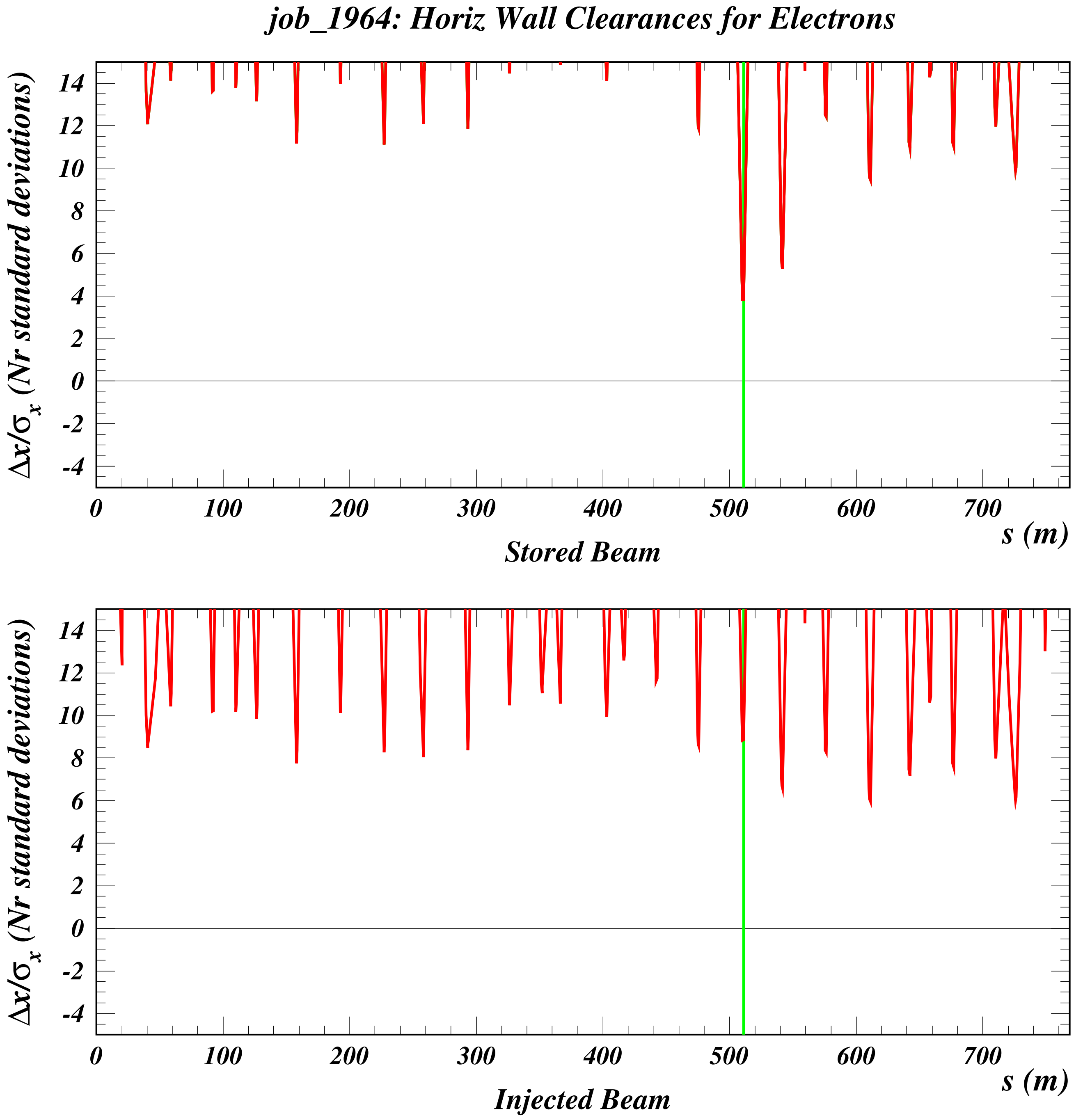

job_1964: Aperture Limits and Horizontal Beam Sizes
X (cm)
0
1
2
3
4
5
6
7
8
0
100
200
300
400
500
600
700
s (m)
Aperture Limits
σx(cm)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0
100
200
300
400
500
600
700
s (m)
Horizontal Beam Size for Stored Electrons

09/12/14 13.33



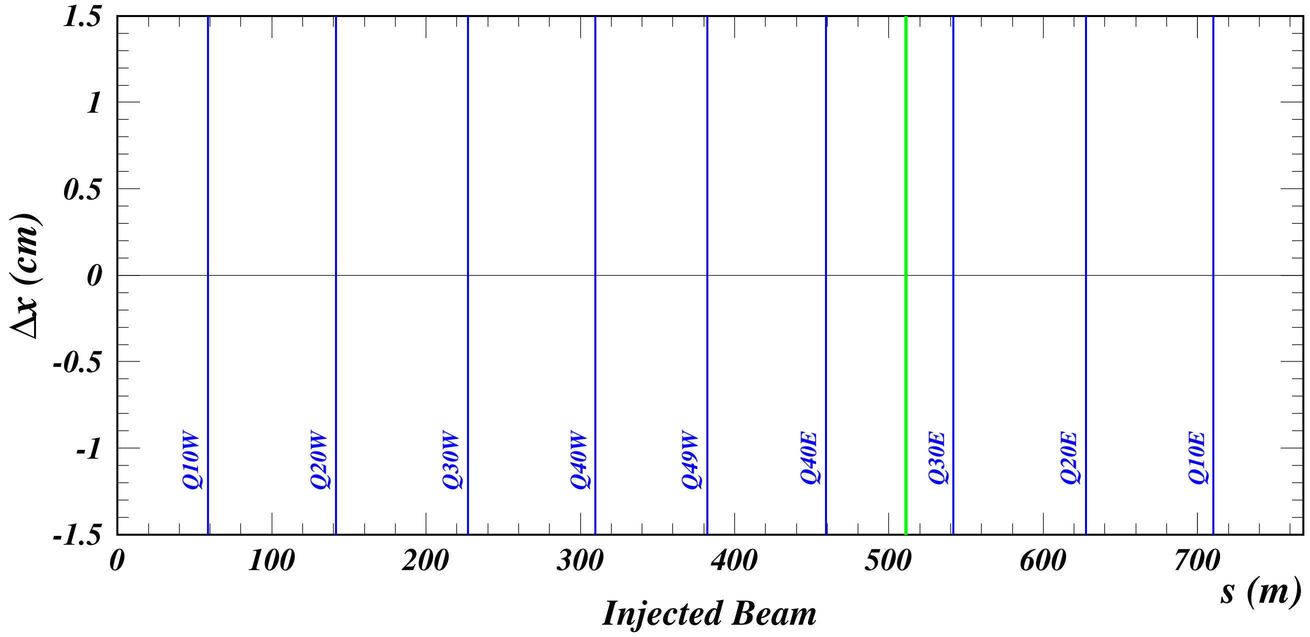
job_1964: Horiz Wall Clearances for Electrons
Δx(cm)
7
6
5
4
3
2
0
100
200
300
400
500
600
700
s (m)
Stored Beam
Δx(cm)
6
4
2
0
-2
-4
0
100
200
300
400
500
600
700
s (m)
Injected Beam

09/12/14 13.33

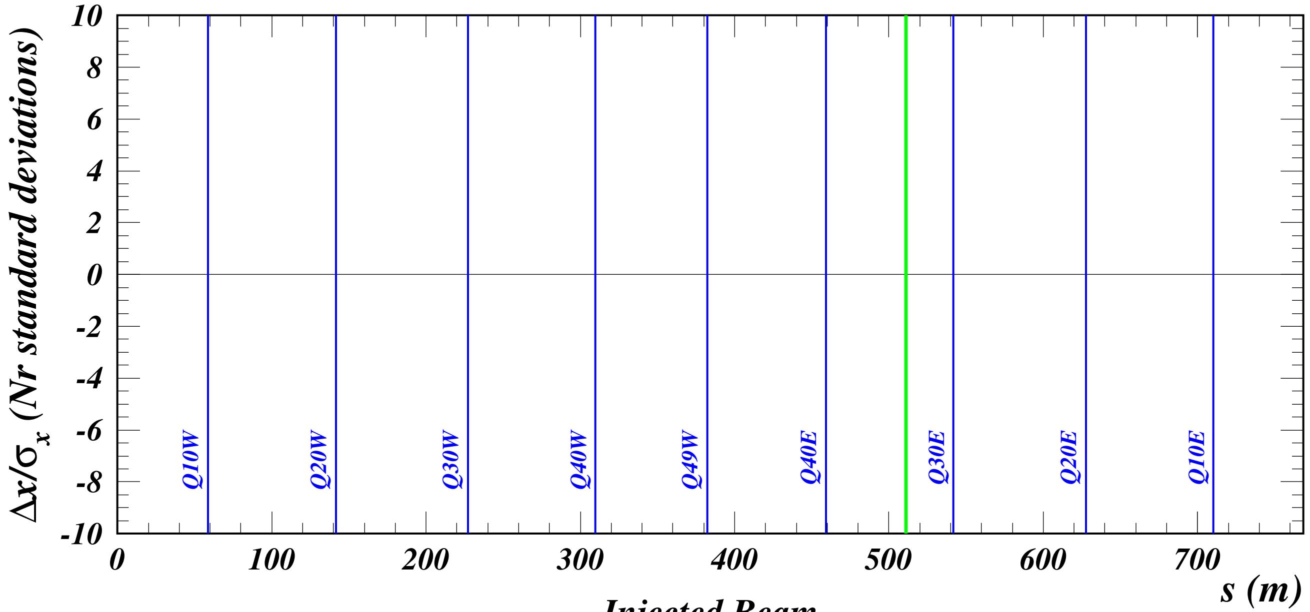

job_1964: Horiz Wall Clearances for Electrons
Δx/σ_x (Nr standard deviations)
14
12
10
8
6
4
2
0
-2
-4
0
100
200
300
400
500
600
700
s (m)
Stored Beam
Δx/σ_x (Nr standard deviations)
s (m)
Injected Beam

09/12/14 13.33

job_1964: e+ Horizontal Clearance for Injected e- Beam



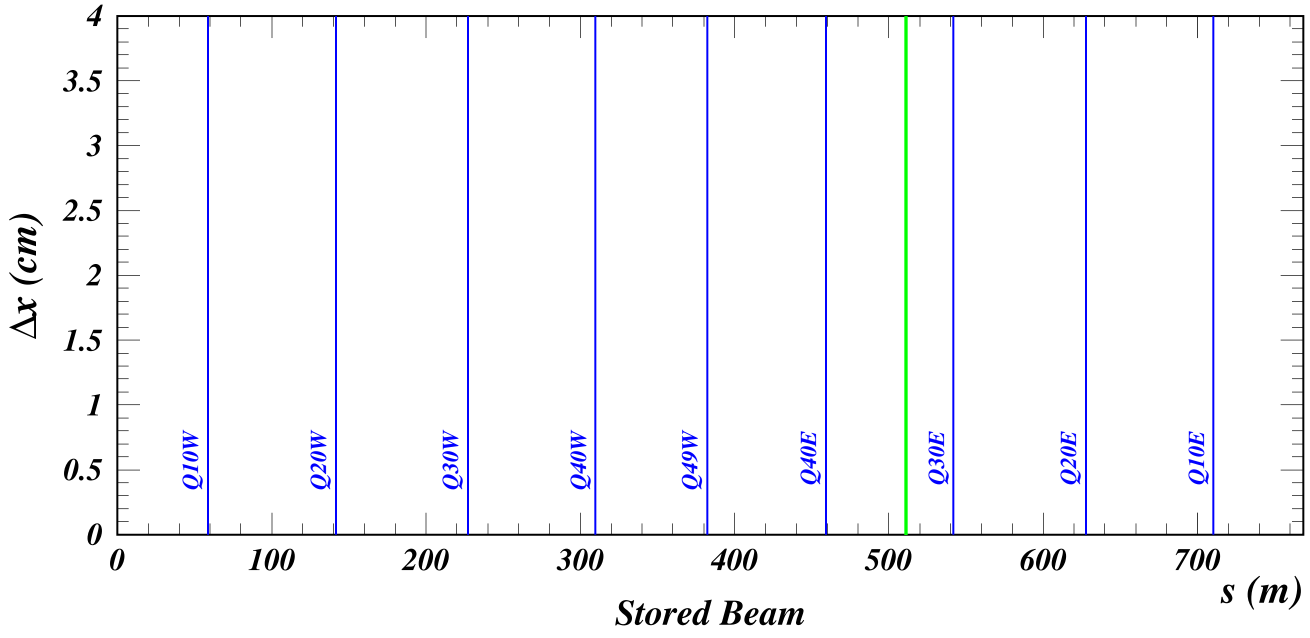
Injected Beam

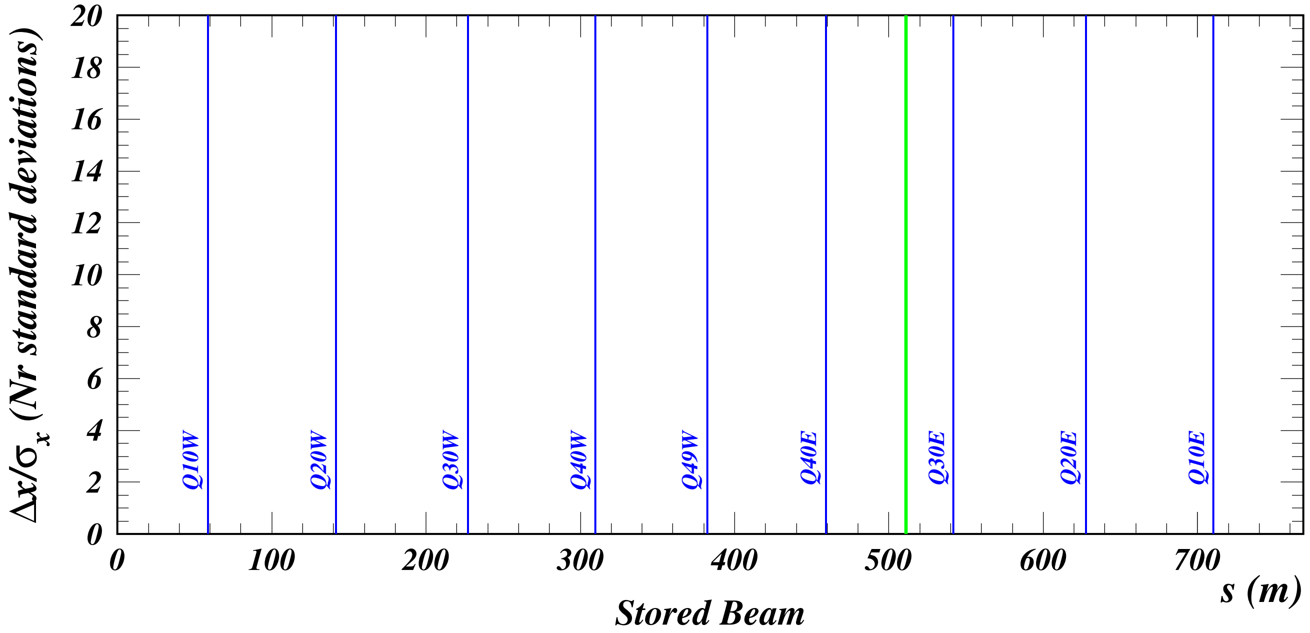


Injected Beam

09/12/14 13.33

job_1964: e+ Horizontal Clearance for Stored e- Beam





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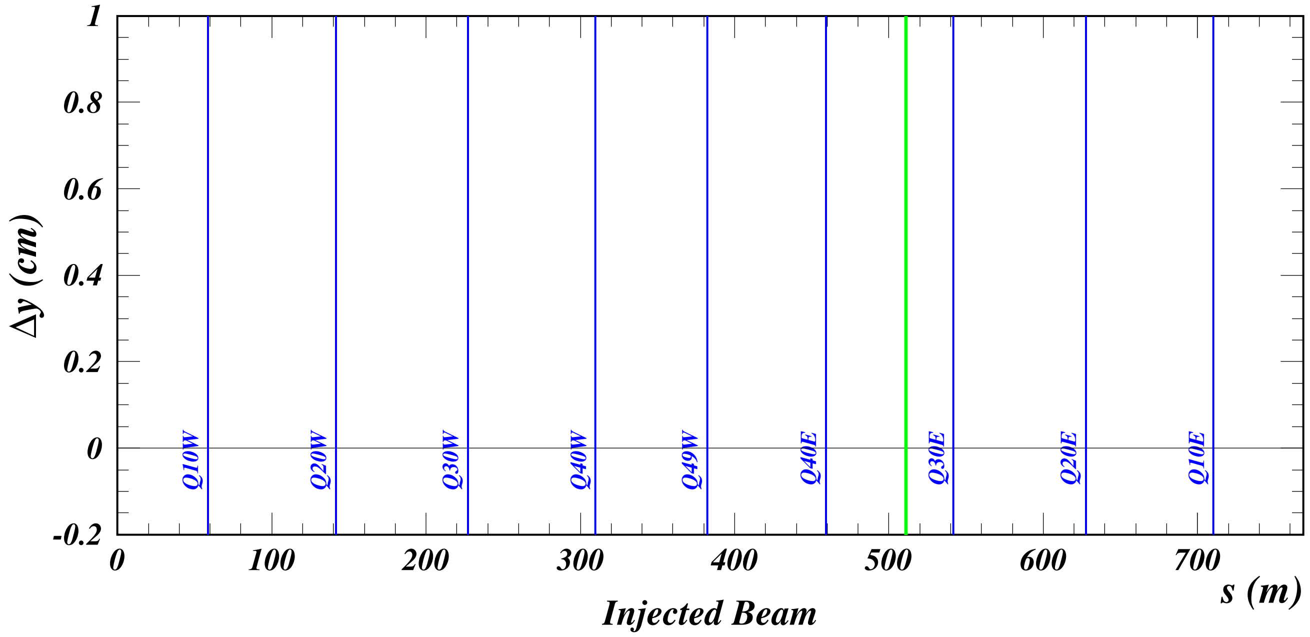
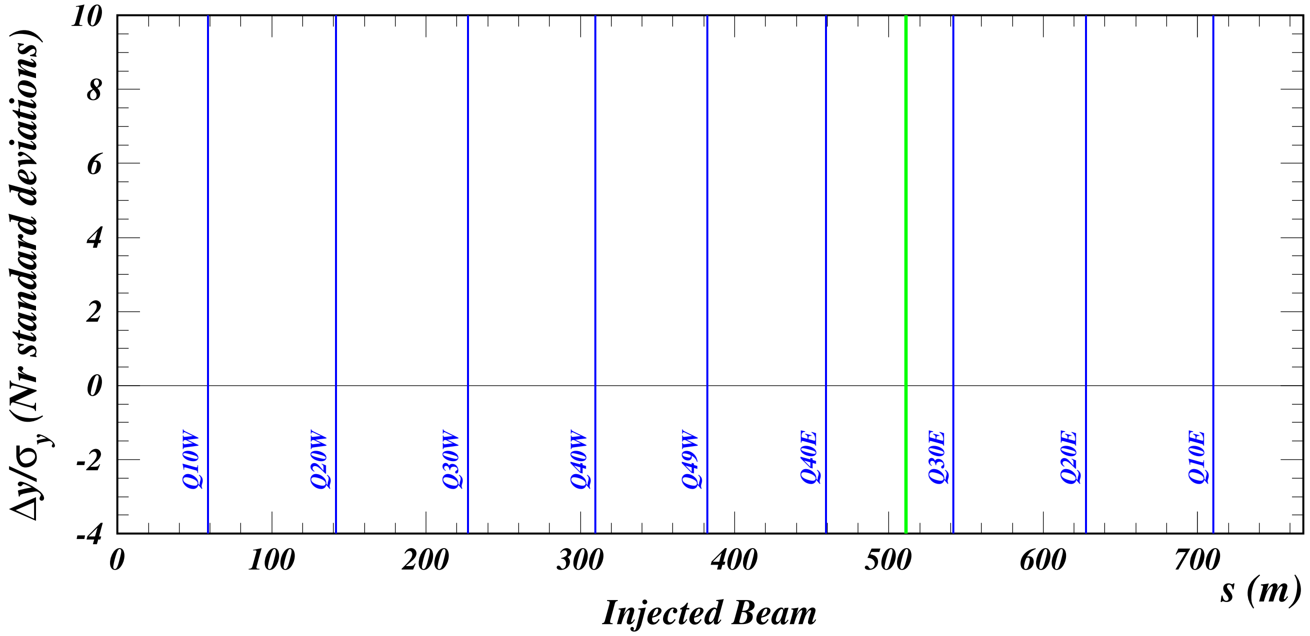
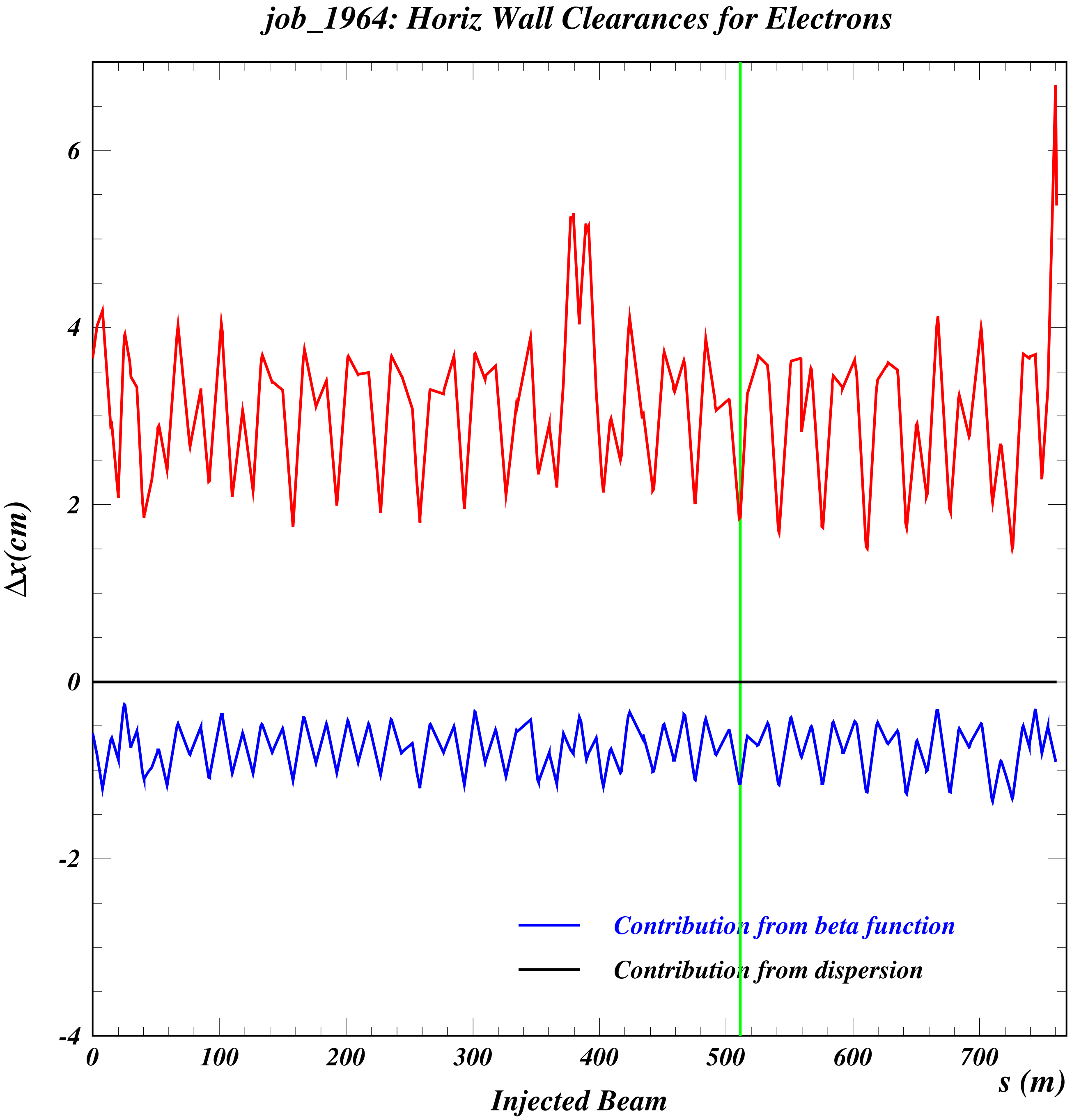
job_1964: e+ Vertical Clearance for Injected e- Beam





09/12/14 13.33


job_1964: 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