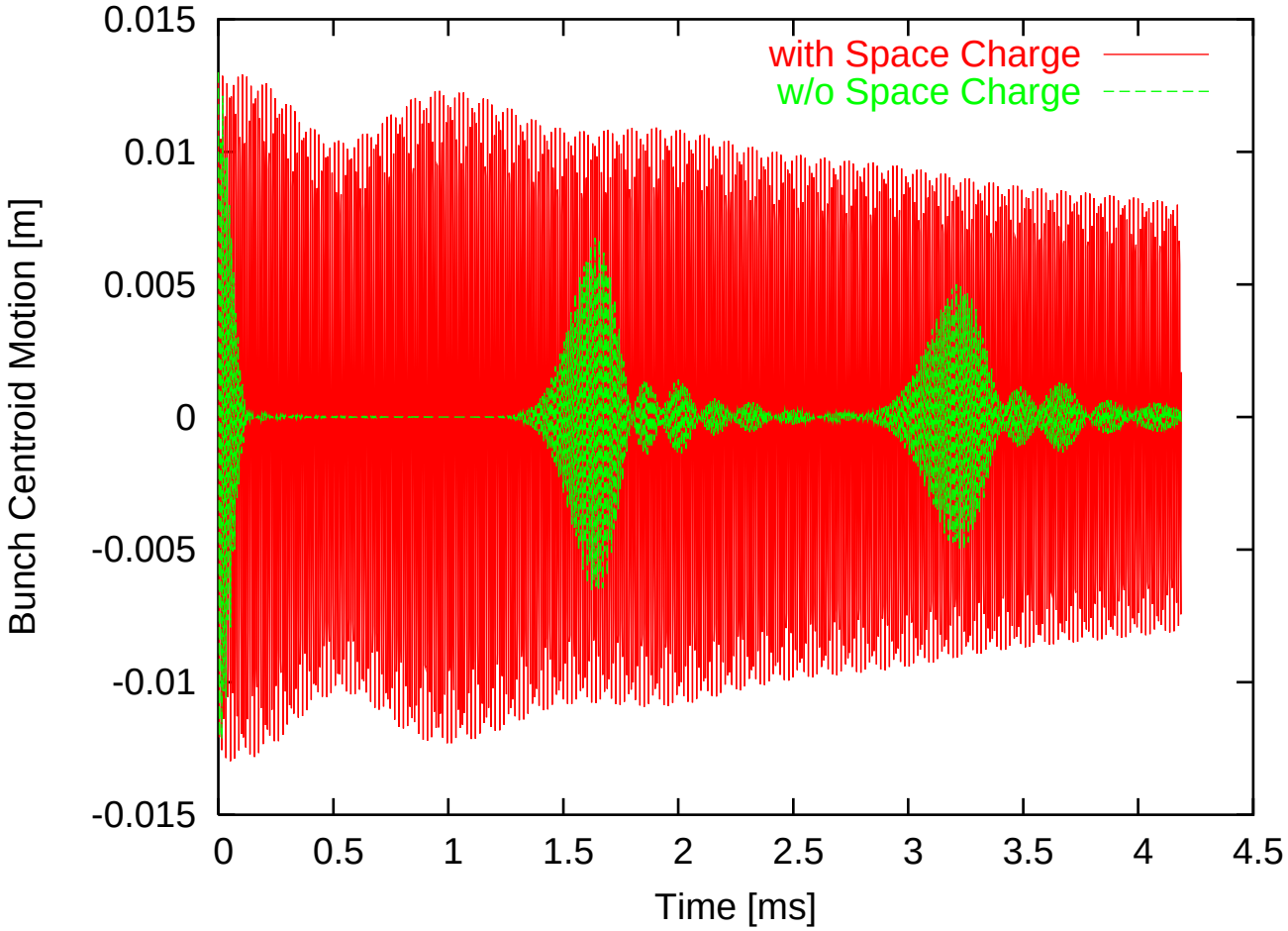
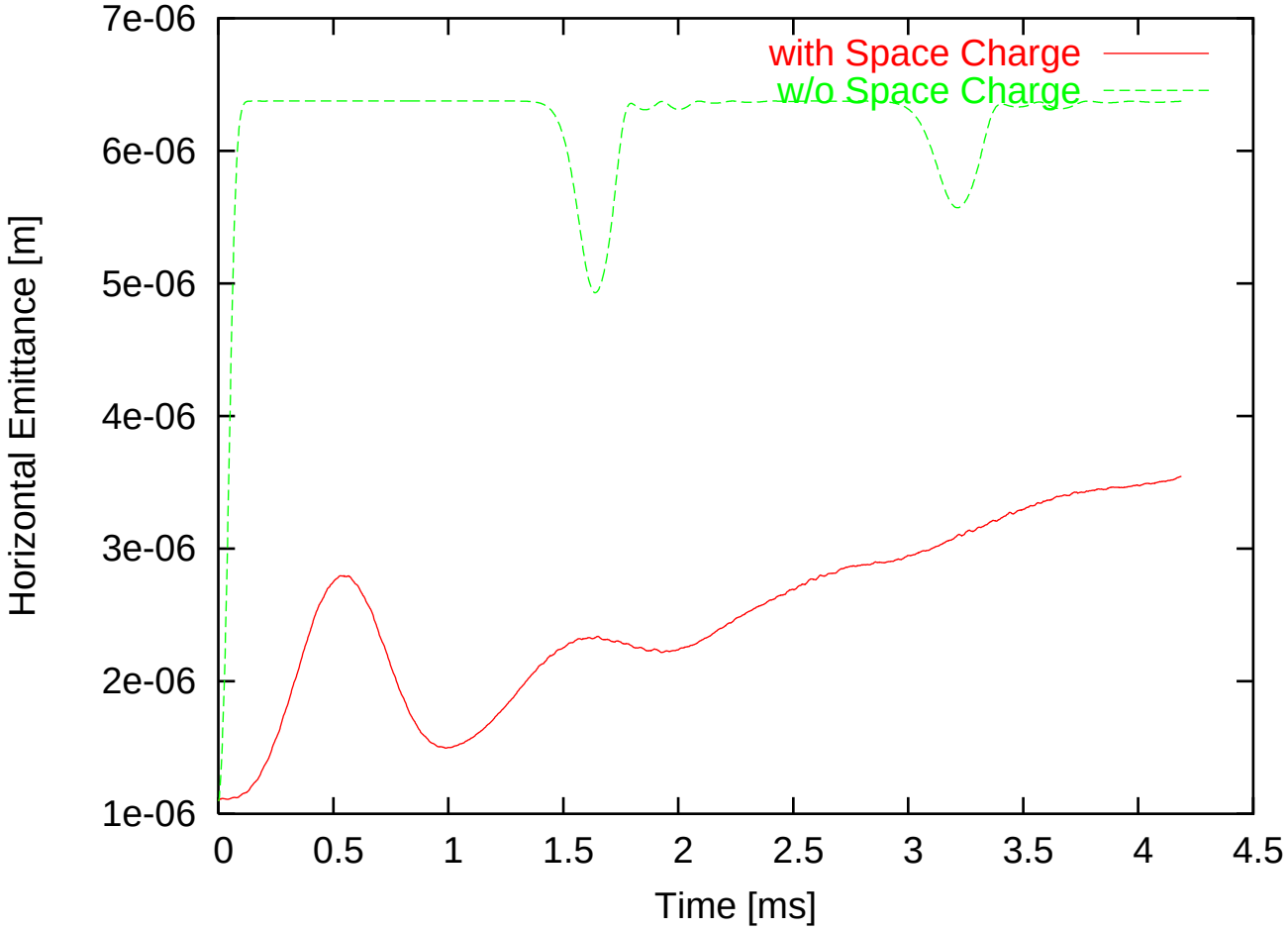

with Space Charge
w/o Space Charge
Bunch Centroid Motion [m]
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Time [ms]


with Space Charge
w/o Space Charge
Horizontal Emittance [m]
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
1e-06
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Time [ms]