TRACK / TRACEWIN CW lattice 10 mA

(CW lattice of 07JAN11)

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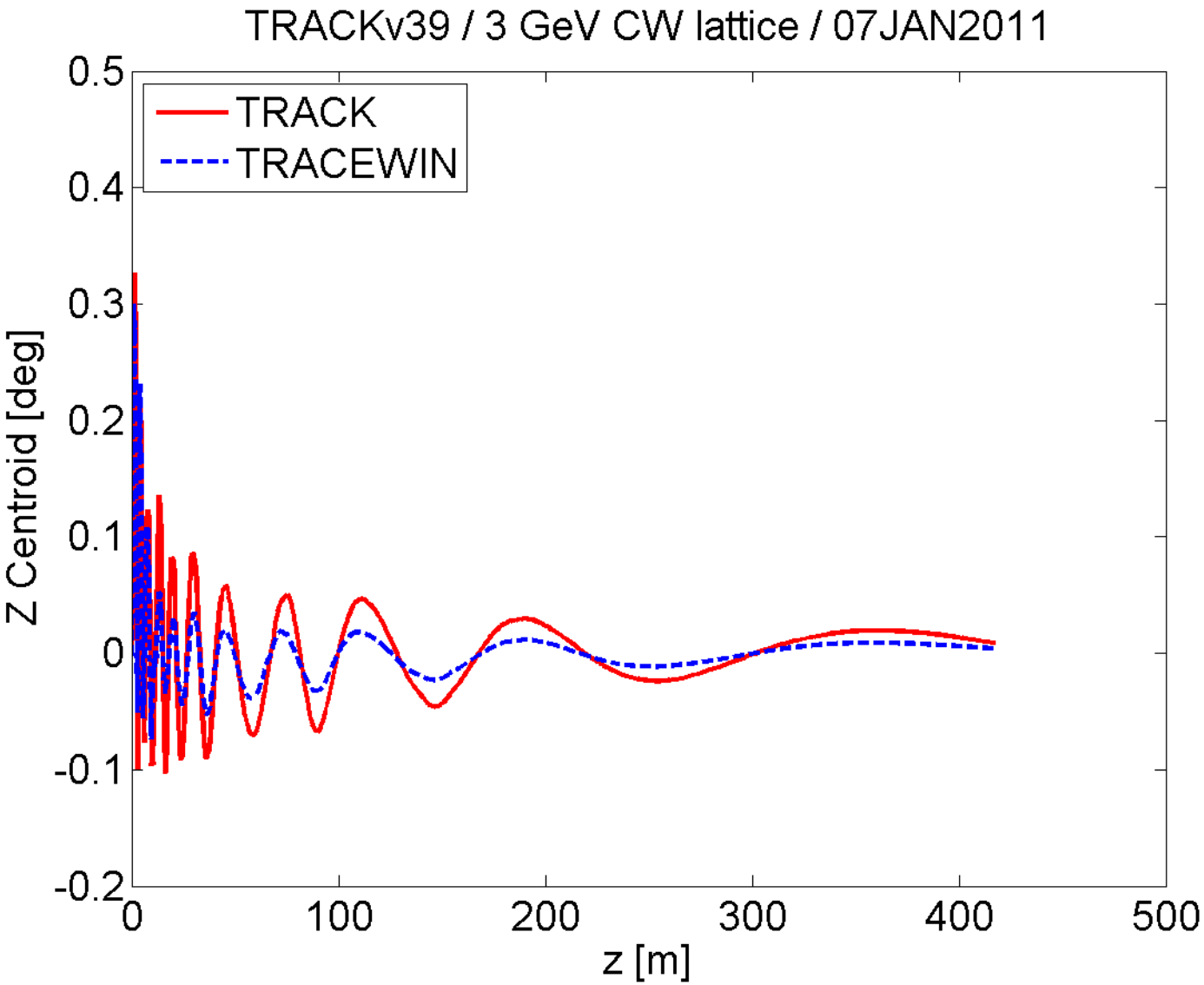
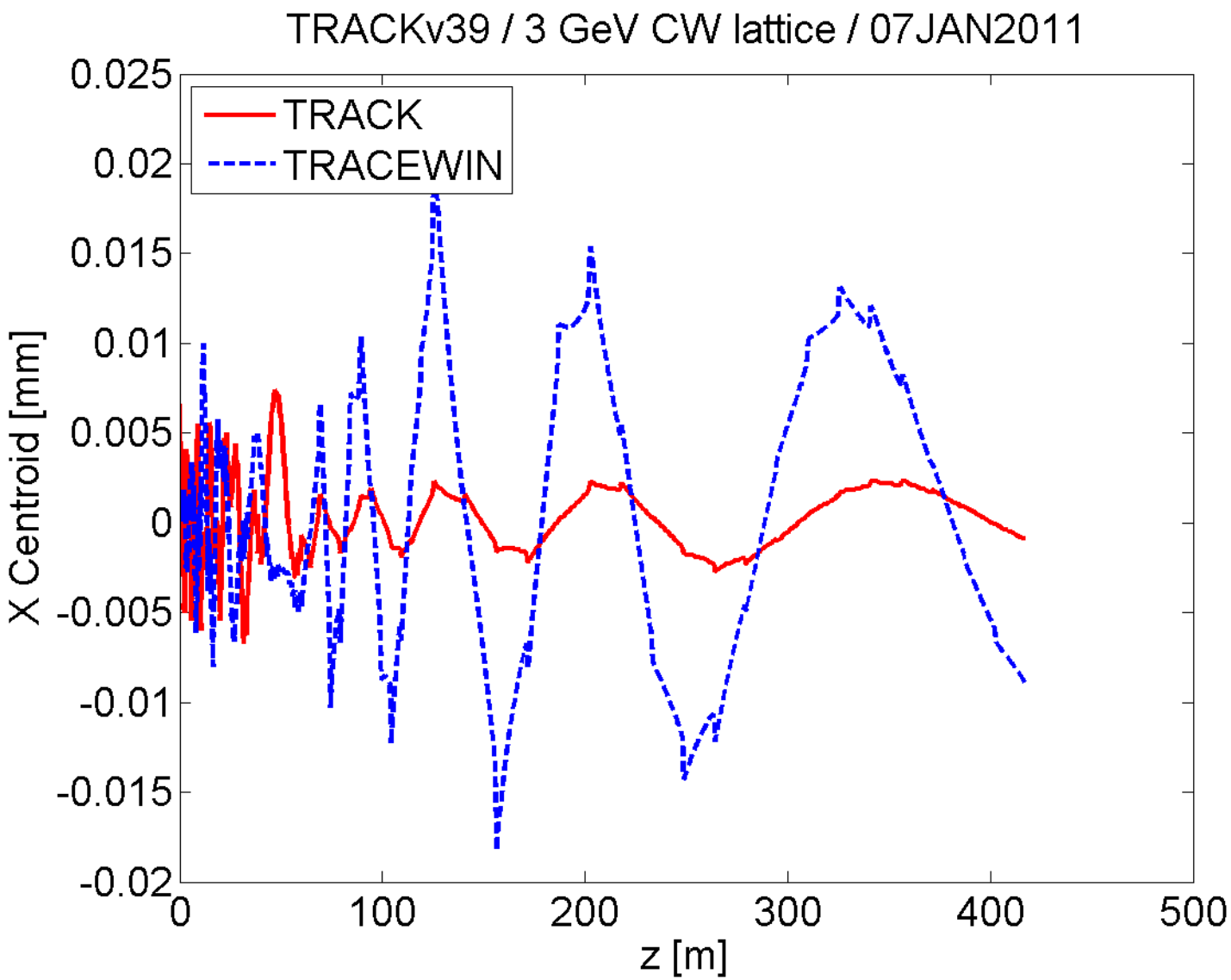
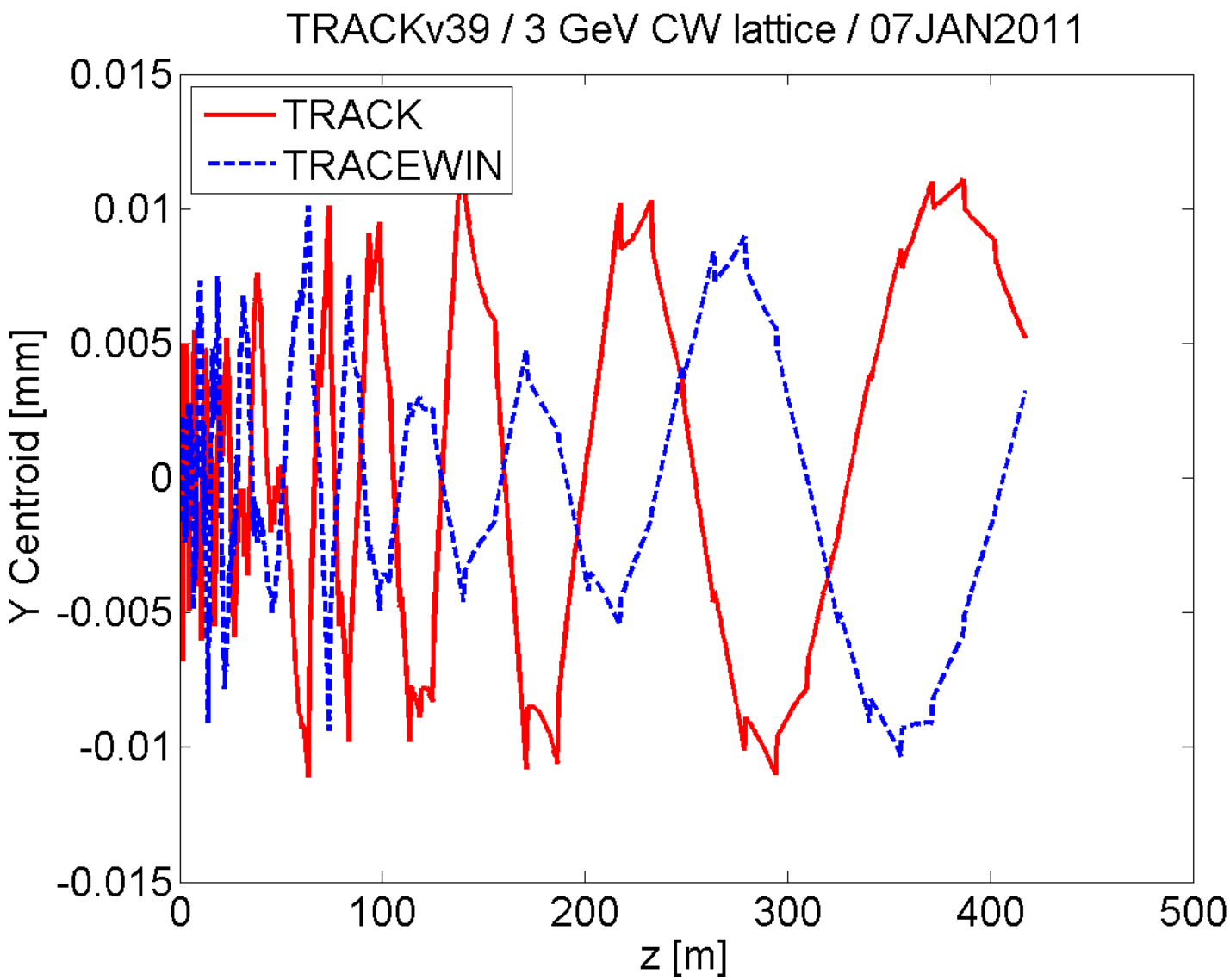
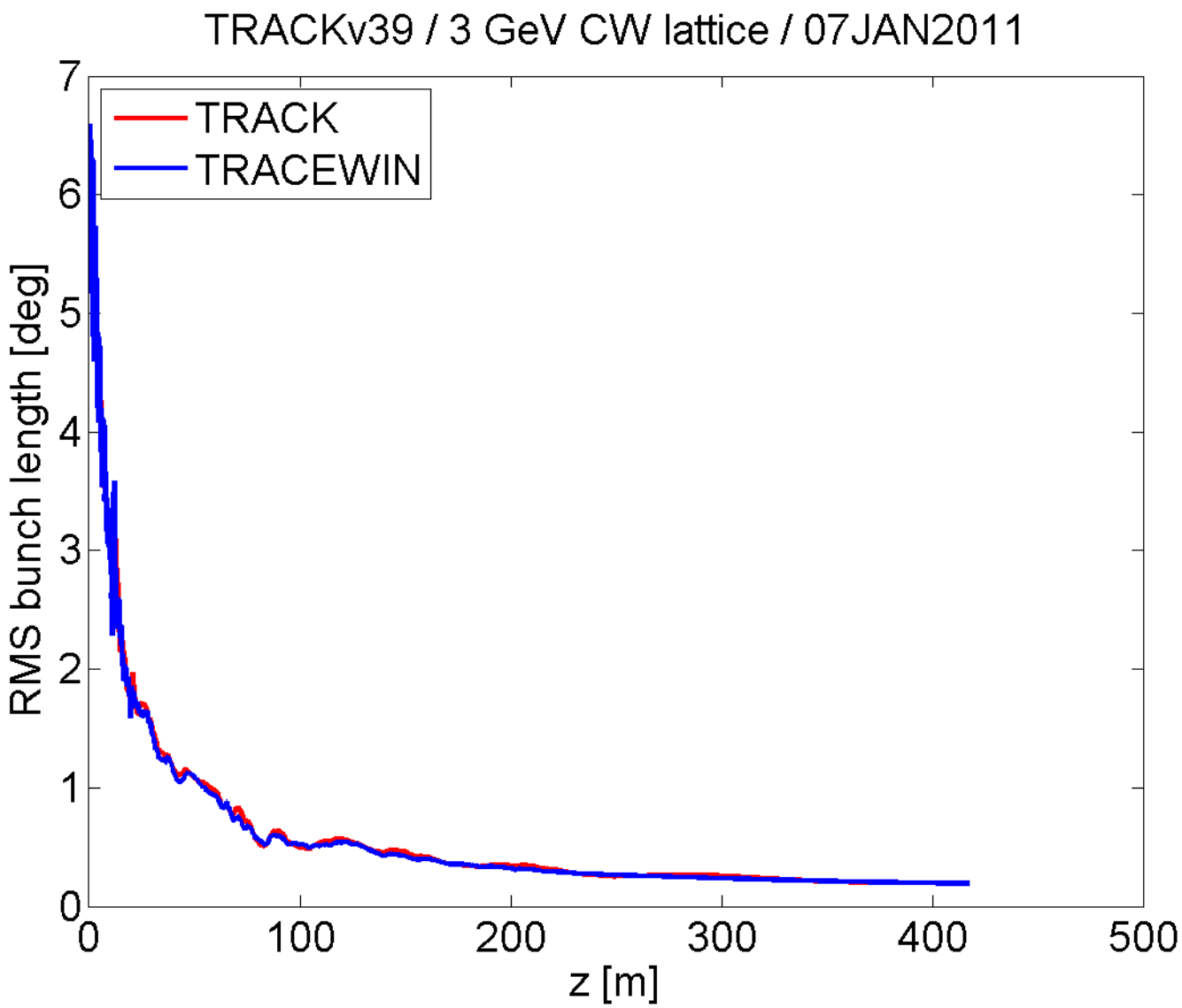
TRACK: 3D E fields, 1D B fields, 3D Space Charge (65 65 129, zlhSC=14), 100k

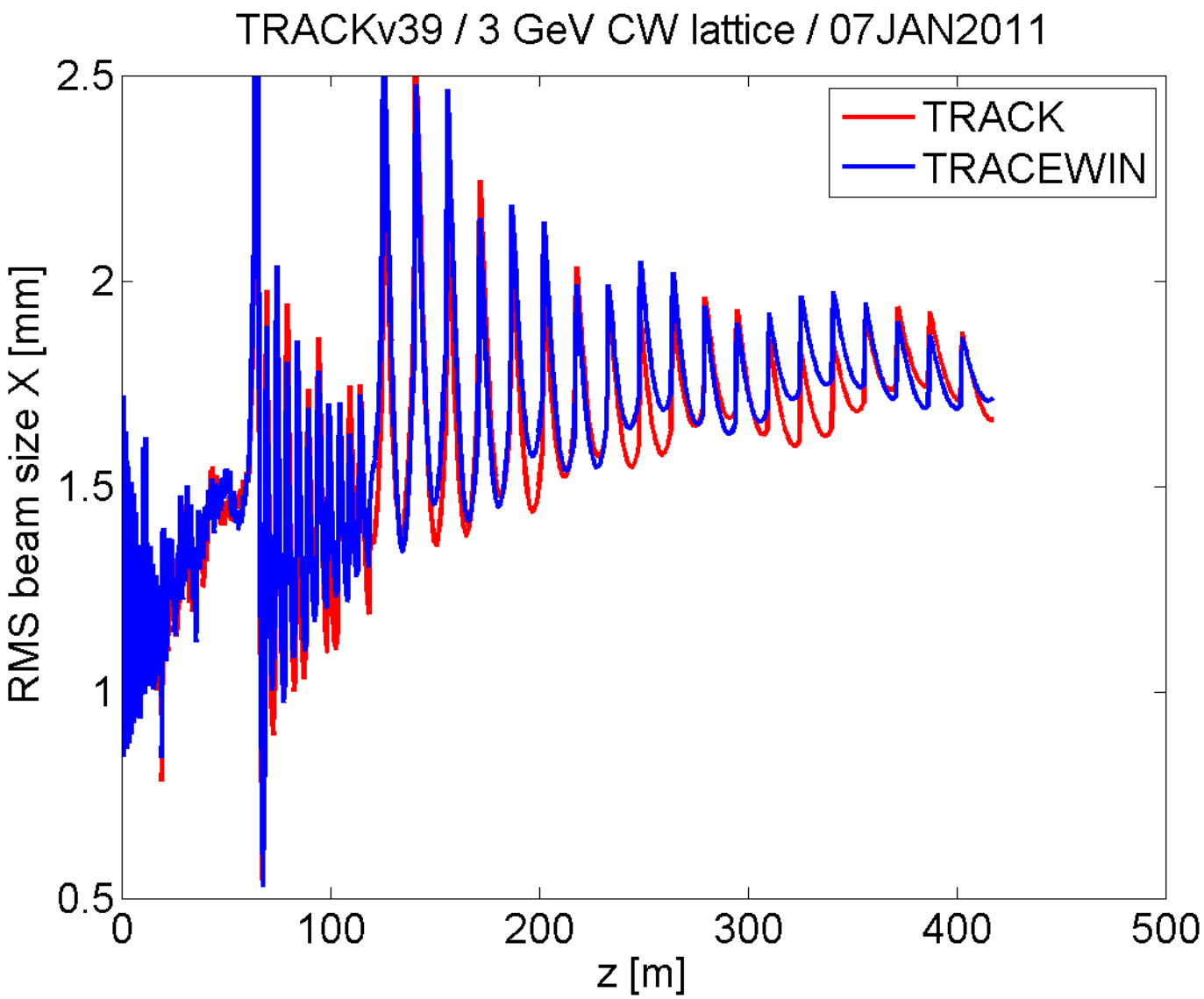
TRACEWIN: 3D E fields, 1D B fields, 2D Space Charge, 100k

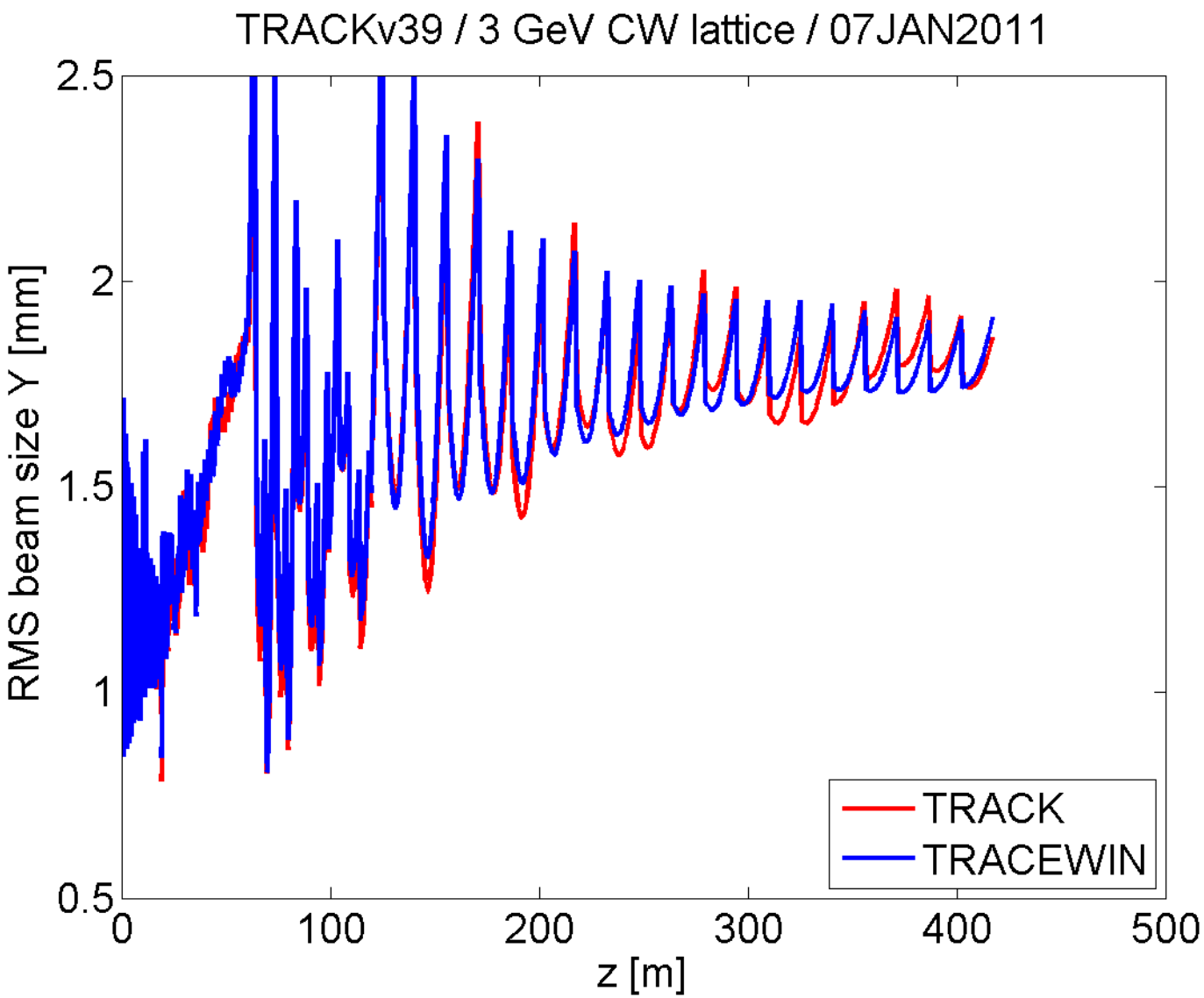

TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
Z Centroid [deg]
z [m]
0.5
0.4
0.3
0.2
0.1
0
-0.1
-0.2
0
100
200
300
400
500

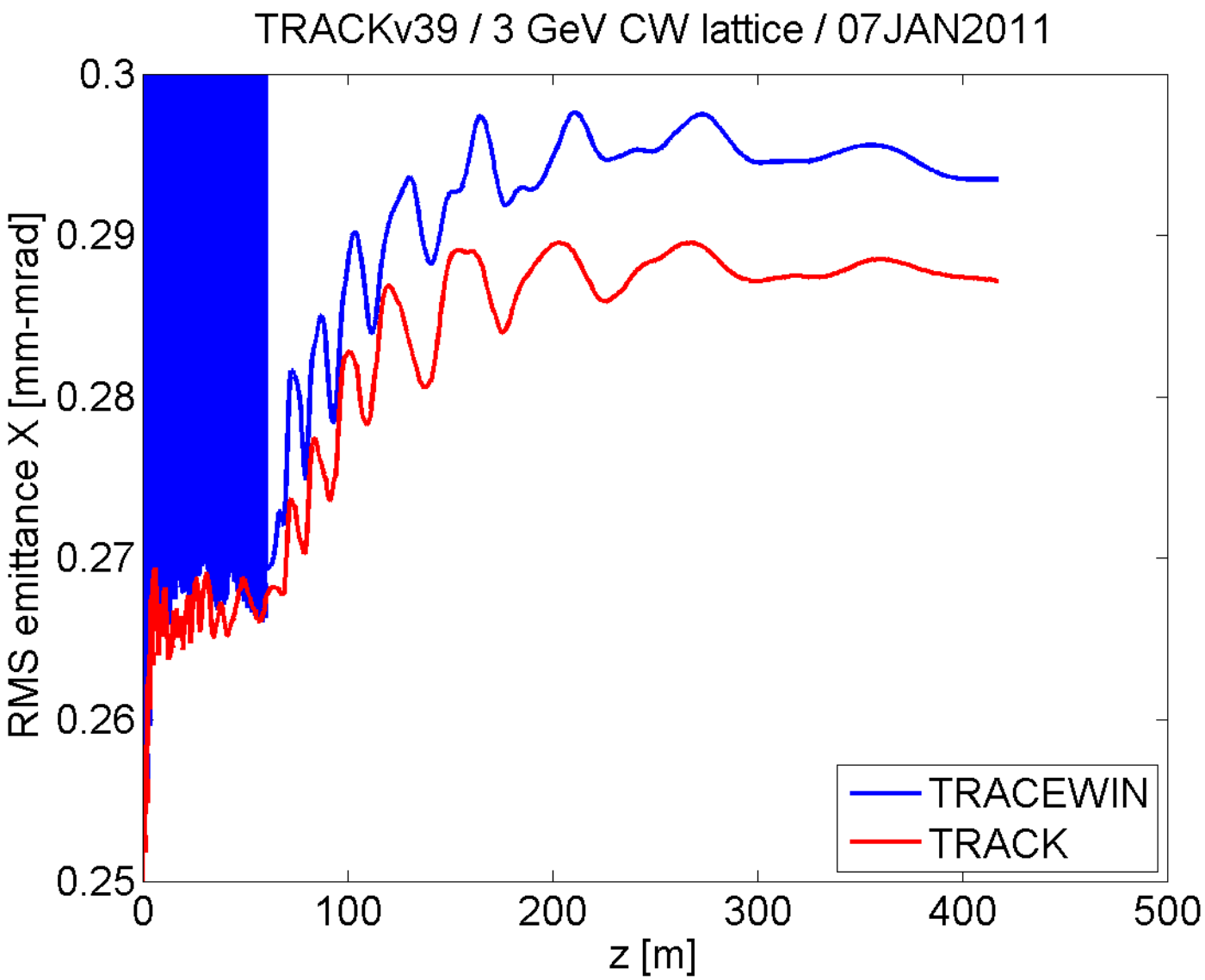

TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
X Centroid [mm]
z [m]
0.025
0.02
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
-0.02
0
100
200
300
400
500

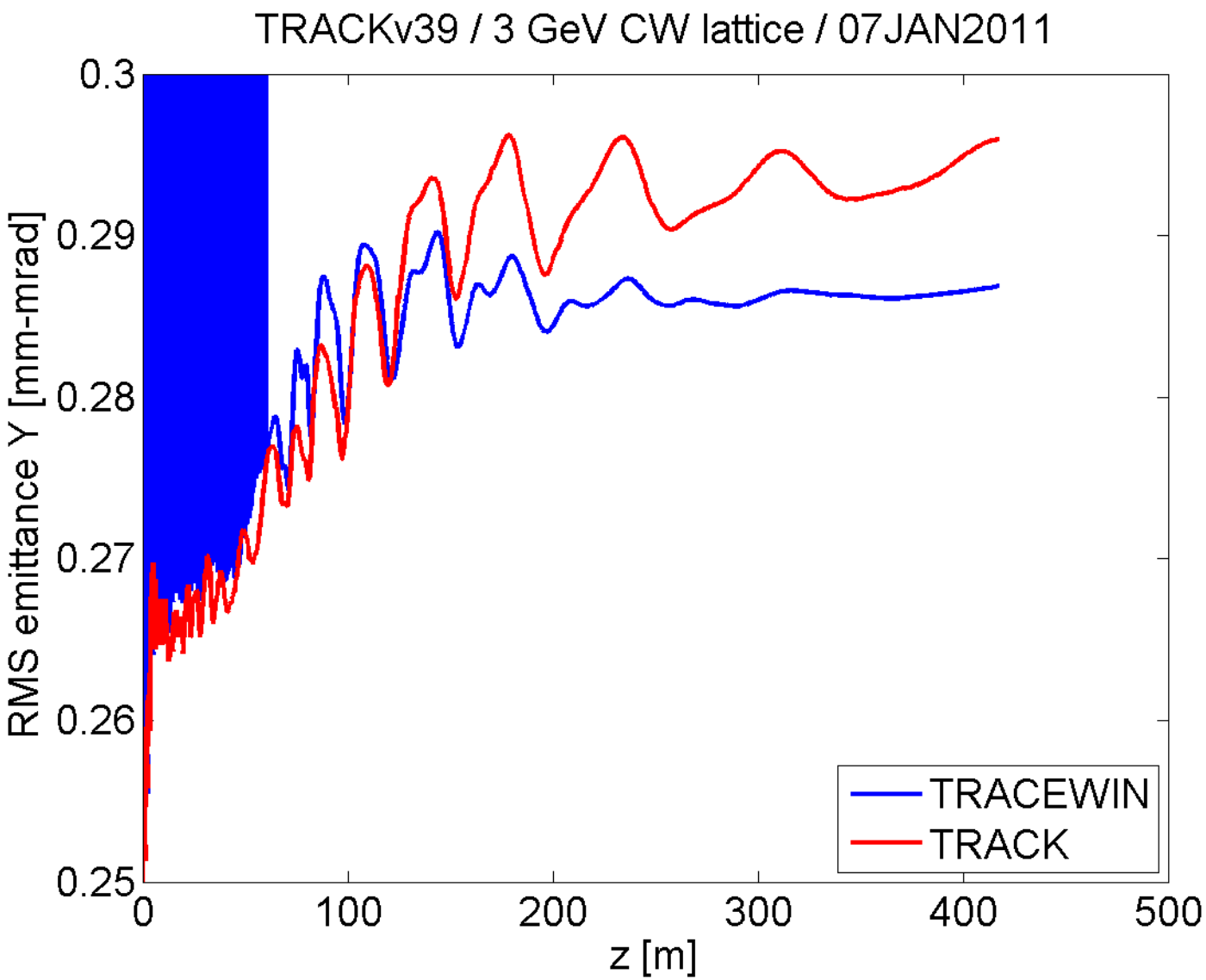

TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
Y Centroid [mm]
z [m]
0.015
0.01
0.005
0
-0.005
-0.01
-0.015
0
100
200
300
400
500

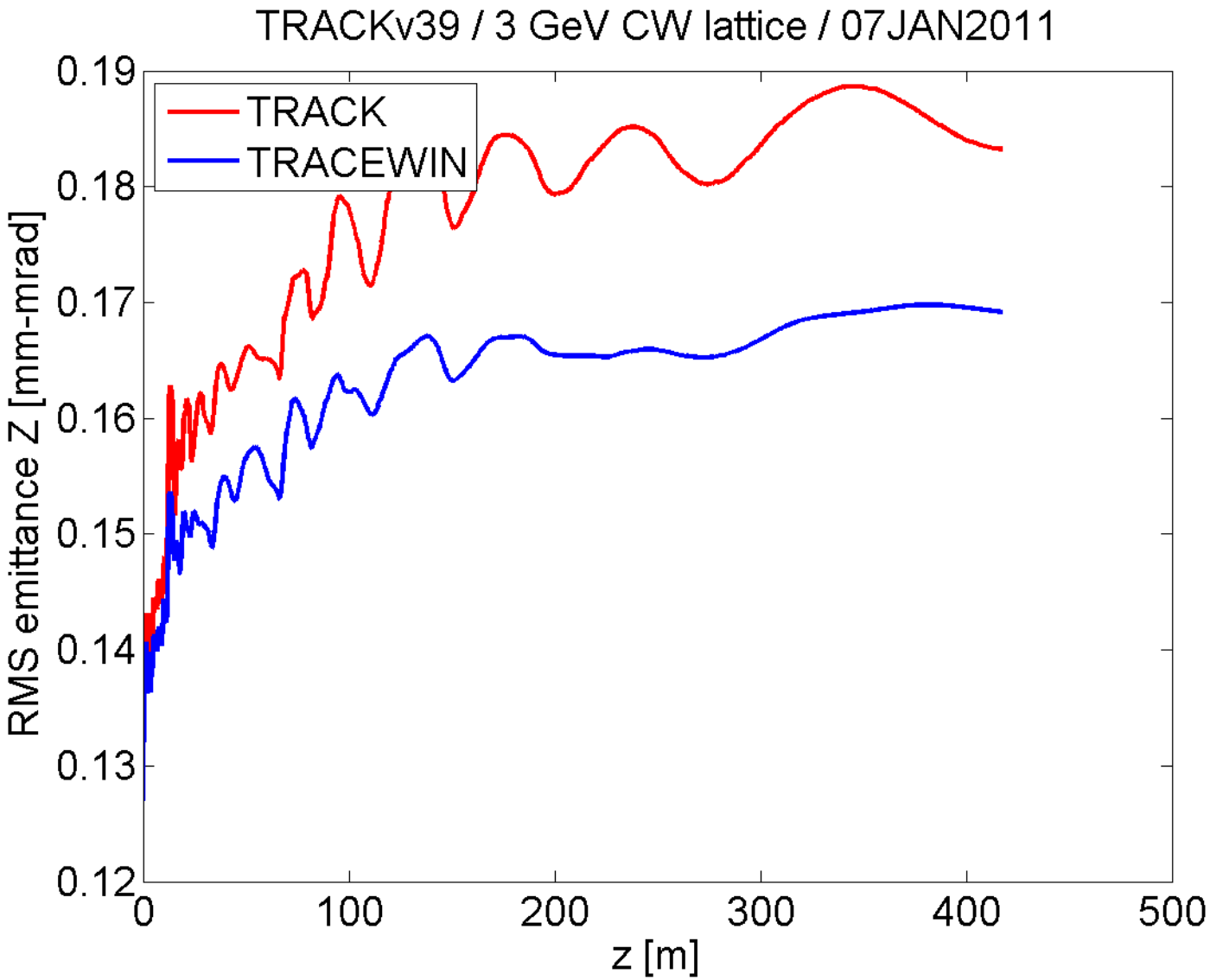

TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
RMS bunch length [deg]
z [m]
0
1
2
3
4
5
6
7
0
100
200
300
400
500

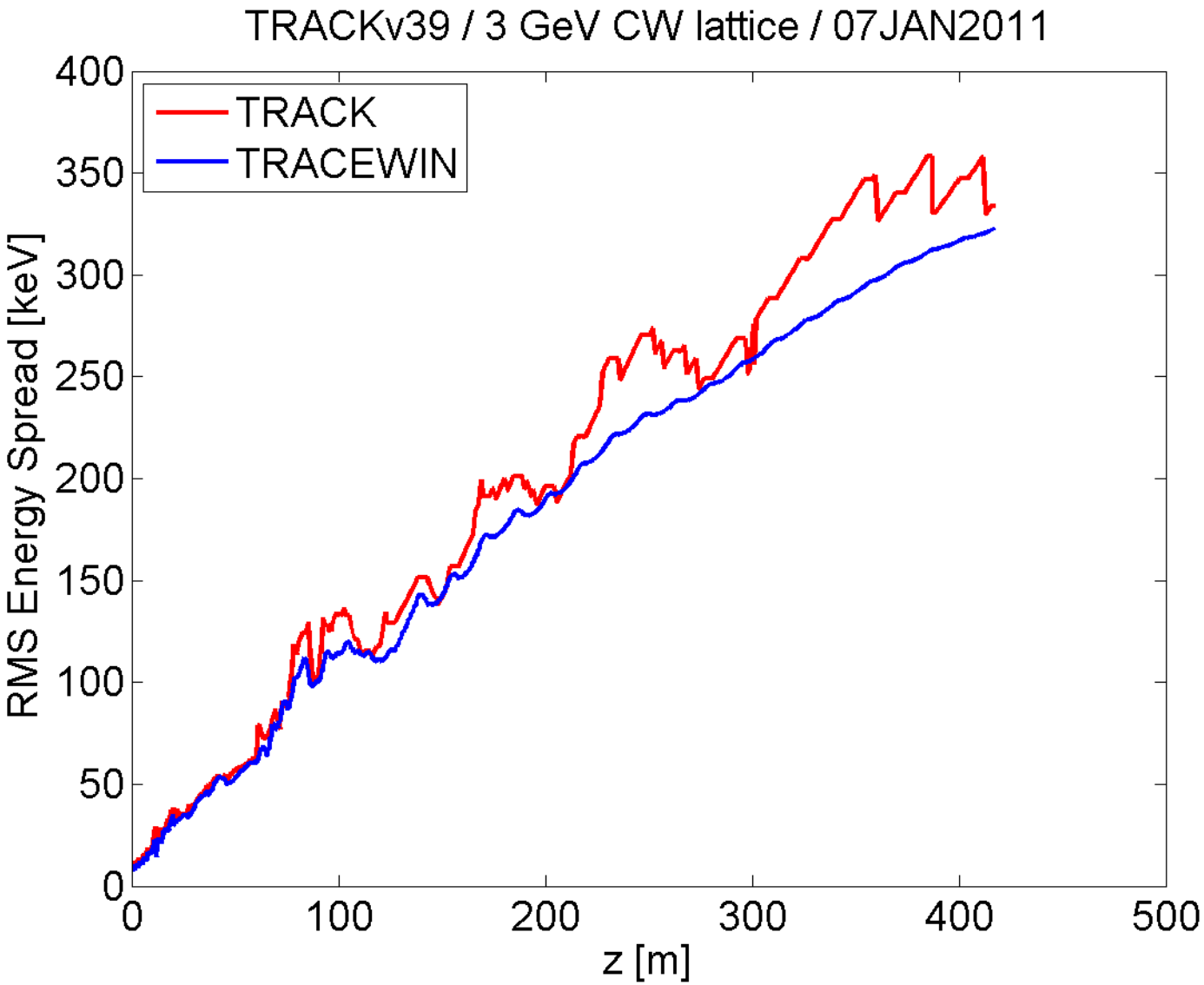

TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
RMS beam size X [mm]
z [m]
2.5
2
1.5
1
0.5
0
100
200
300
400
500

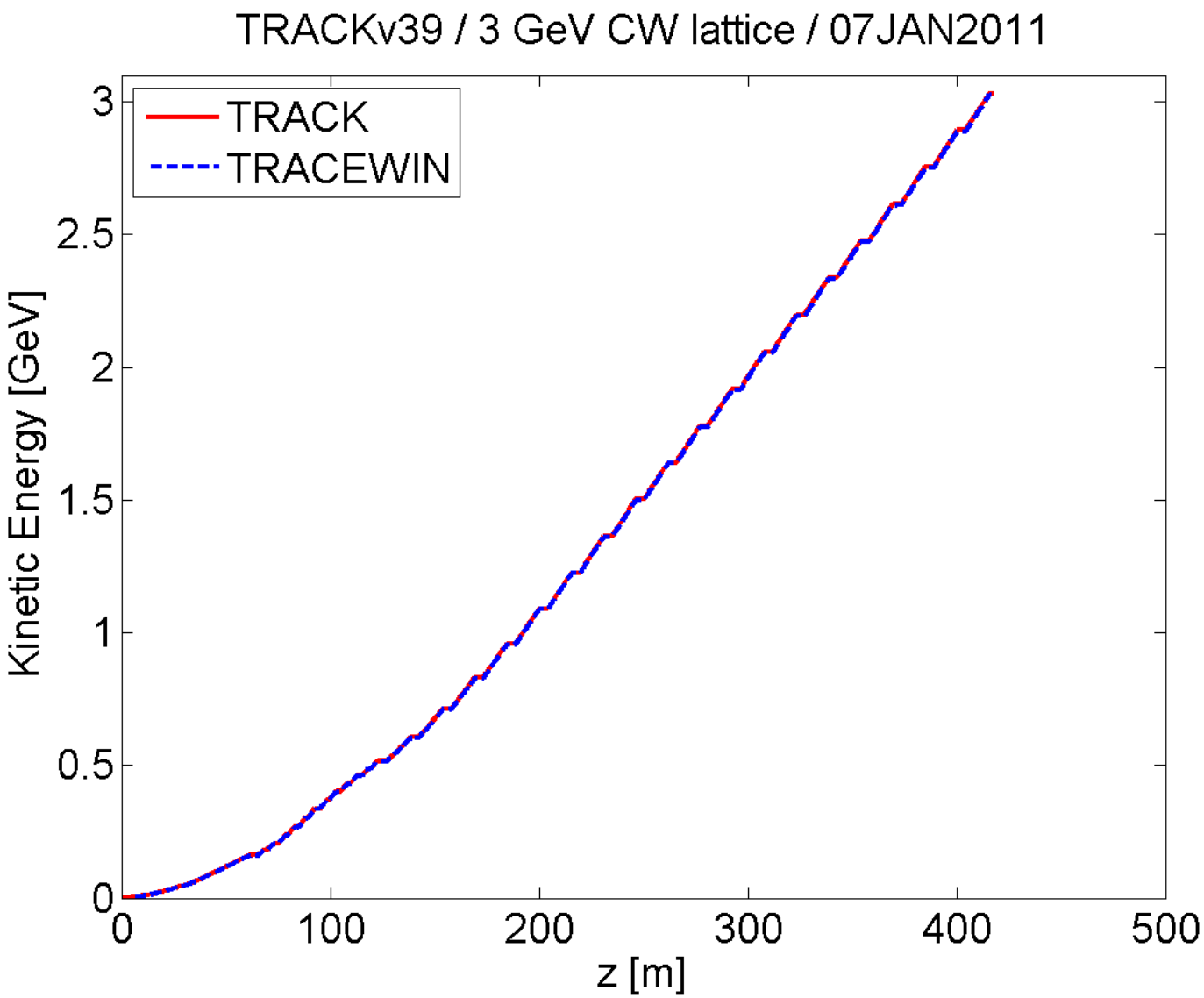

TRACKv39 / 3 GeV CW lattice / 07JAN2011
RMS beam size Y [mm]
z [m]
2.5
2
1.5
1
0.5
0
100
200
300
400
500
TRACK
TRACEWIN


TRACKv39 / 3 GeV CW lattice / 07JAN2011
RMS emittance X [mm-mrad]
0.3
0.29
0.28
0.27
0.26
0.25
0
100
200
300
400
500
z [m]
TRACEWIN
TRACK


TRACKv39 / 3 GeV CW lattice / 07JAN2011
RMS emittance Y [mm-mrad]
0.3
0.29
0.28
0.27
0.26
0.25
0
100
200
300
400
500
z [m]
TRACEWIN
TRACK


TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
RMS emittance Z [mm-mrad]
z [m]
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0
100
200
300
400
500


TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
RMS Energy Spread [keV]
z [m]
0
50
100
150
200
250
300
350
400
0
100
200
300
400
500


TRACKv39 / 3 GeV CW lattice / 07JAN2011
TRACK
TRACEWIN
Kinetic Energy [GeV]
z [m]
0
0.5
1
1.5
2
2.5
3
0
100
200
300
400
500