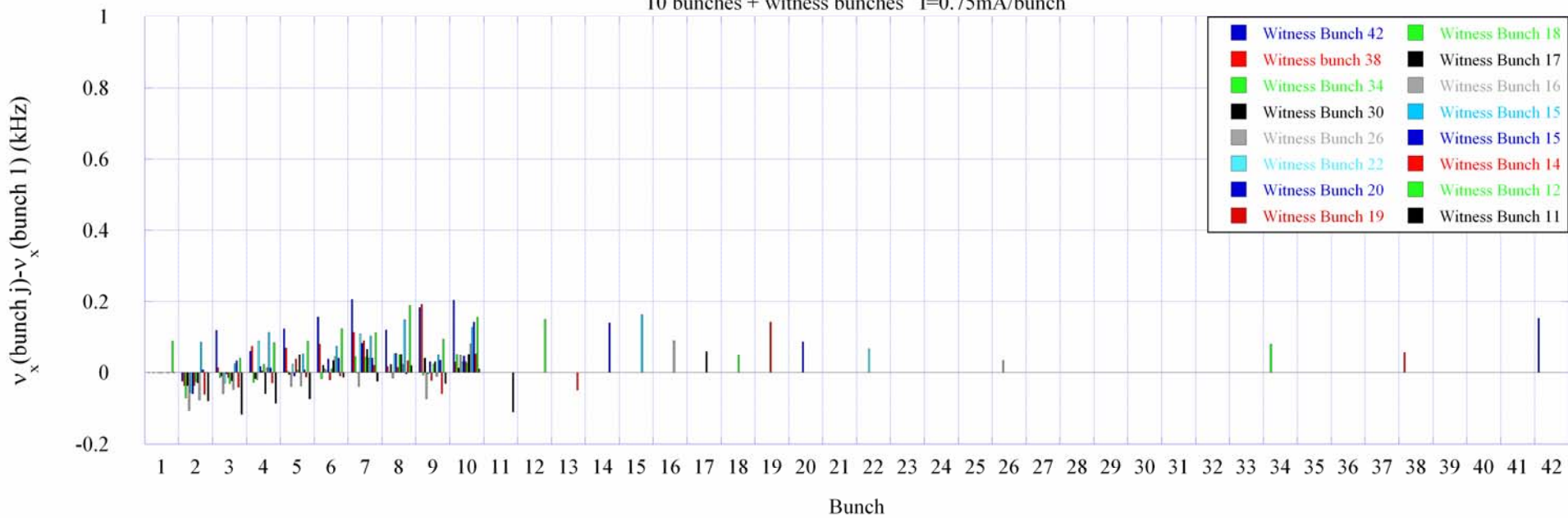
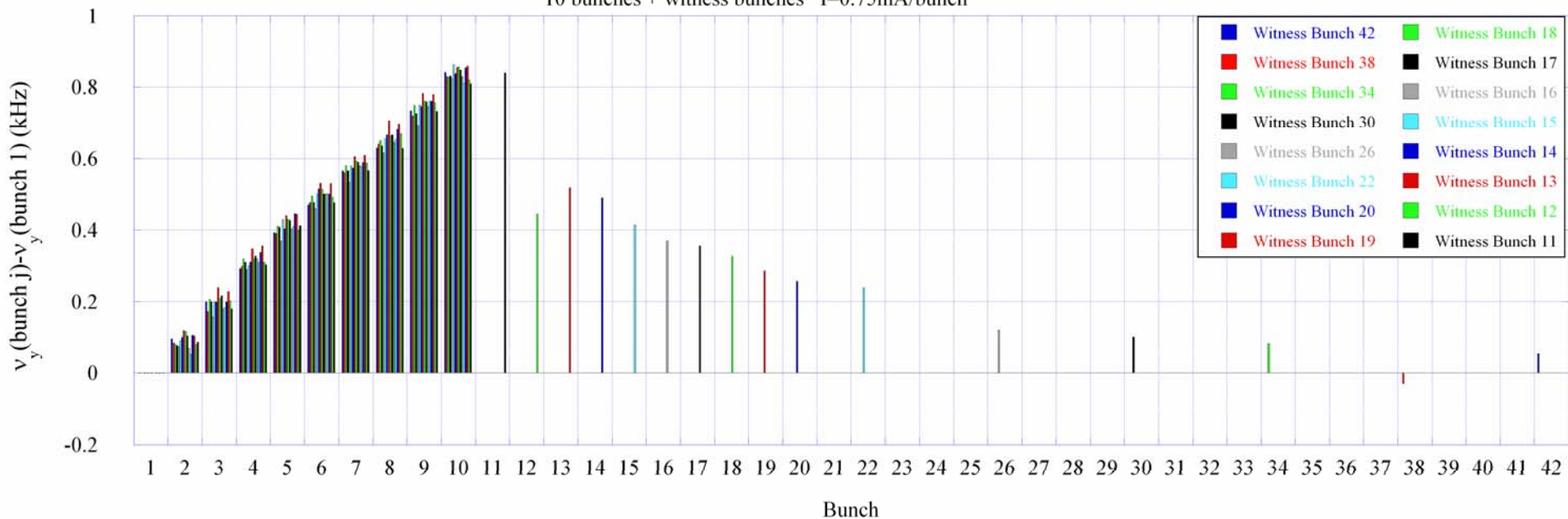


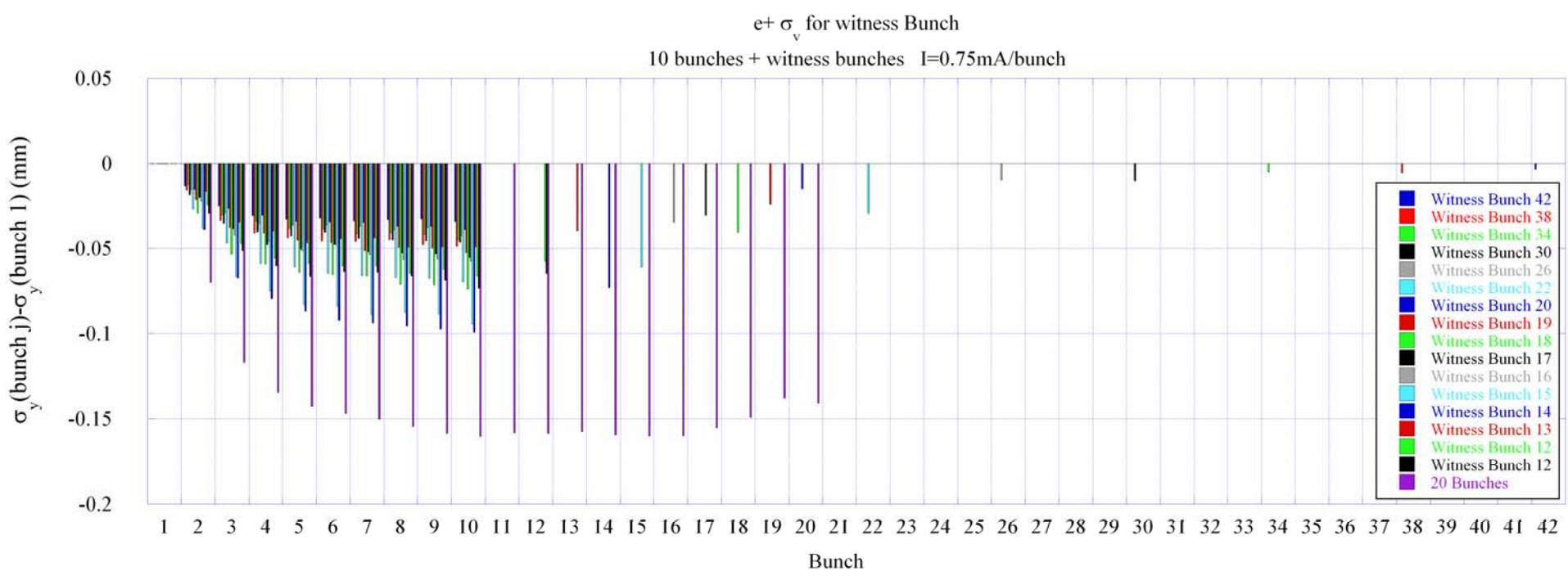
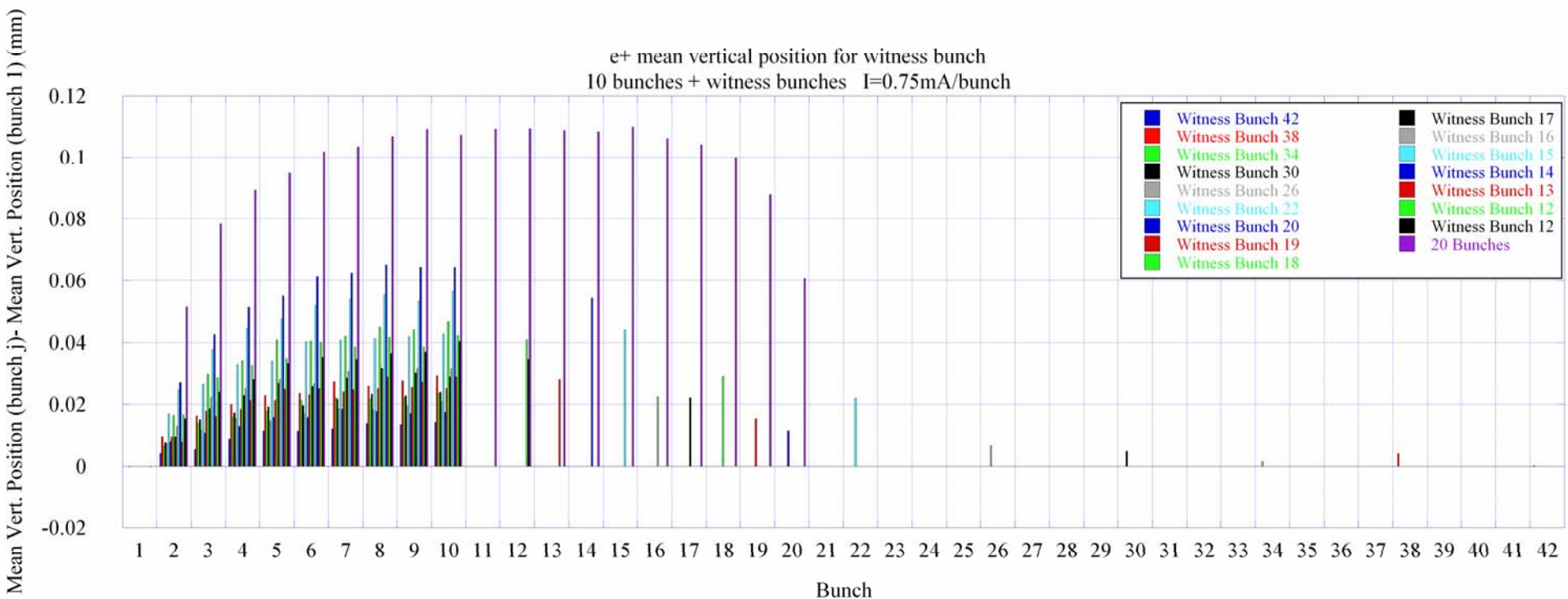
CESR-c e- Cloud Machine Studies
e+/e- with witness bunch
4/2/2007

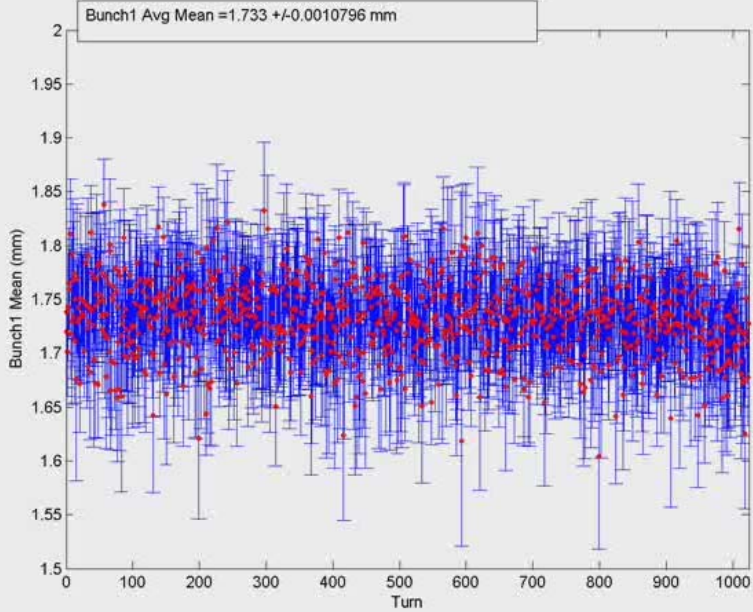
e+ Horizontal Tune
10 bunches + witness bunches I=0.75mA/bunch



e+ Vertical Tune
10 bunches + witness bunches I=0.75mA/bunch







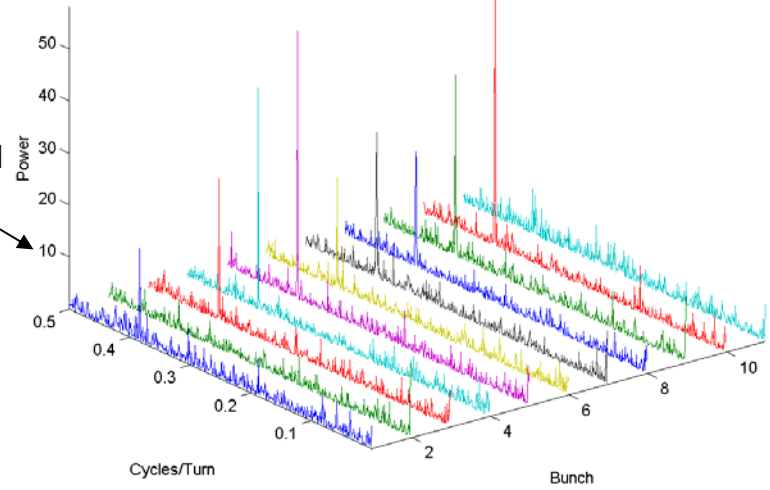
Vertical mean position (movie)



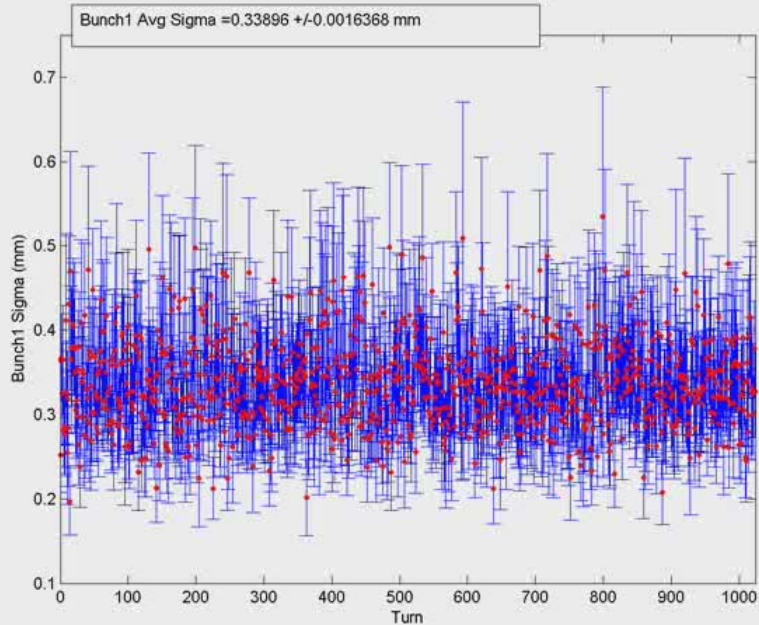
FFT Vertical position



bsm23e01100 results



e+ vertical dynamics
 Witness bunch 42
 File: 1100



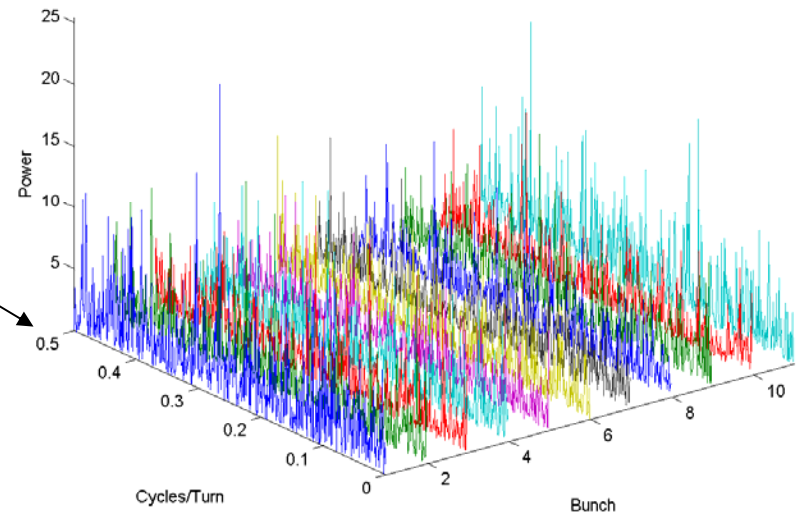
σ_v (movie)

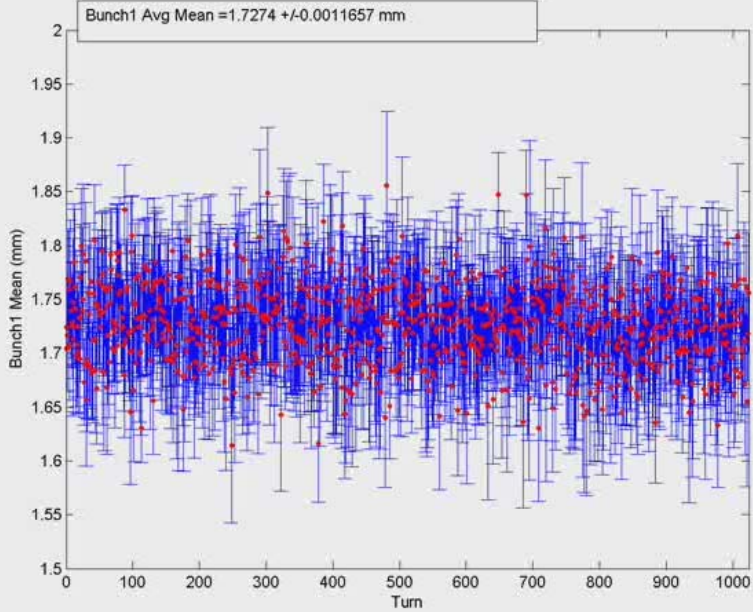


FFT σ_v



bsm23e01100 results





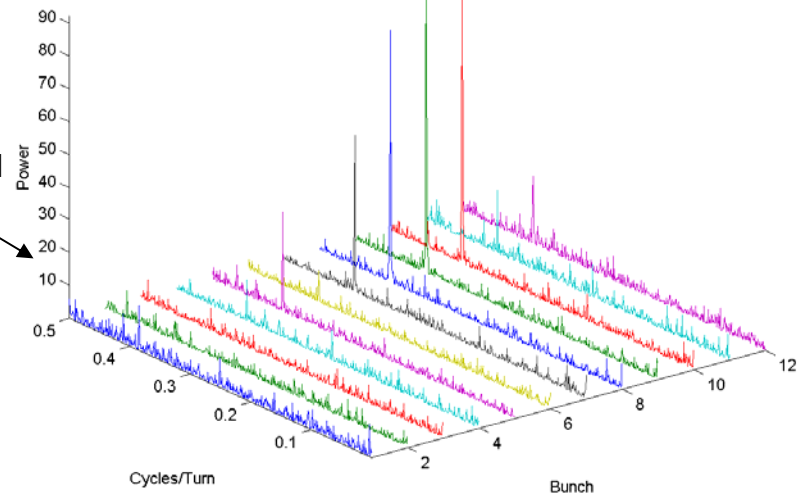
Vertical mean position (movie)



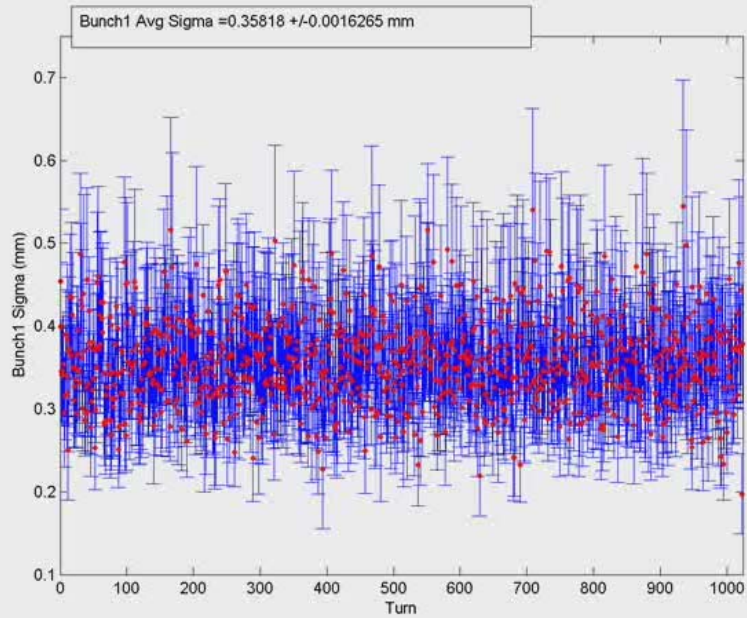
FFT Vertical position



bsm23e01101 results



e+ vertical dynamics
 Witness bunch 38,42
 File: 1101



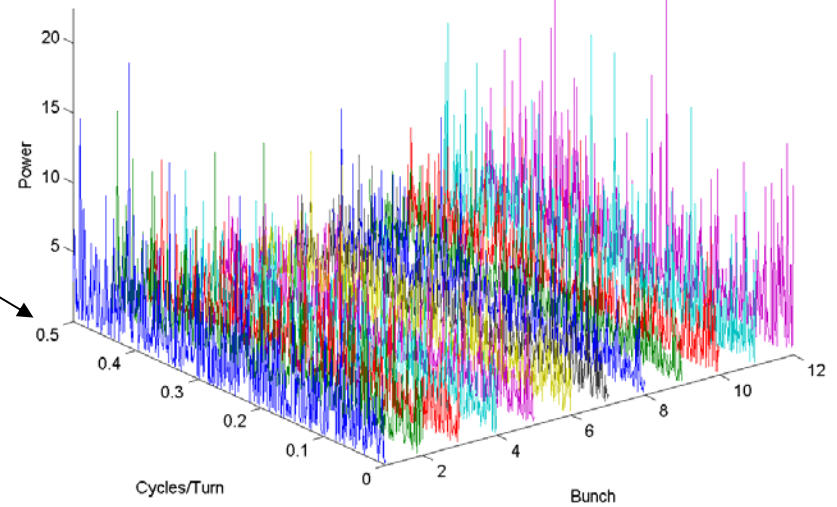
σ_v (movie)

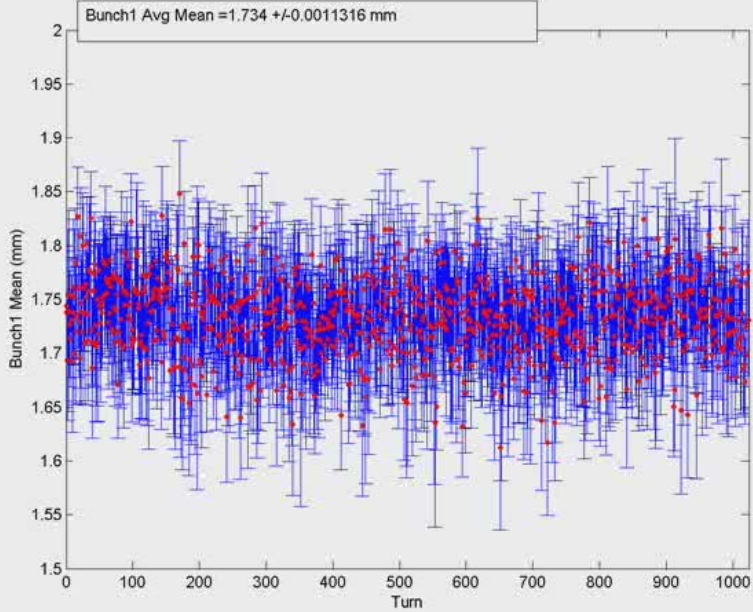


FFT σ_v



bsm23e01101 results

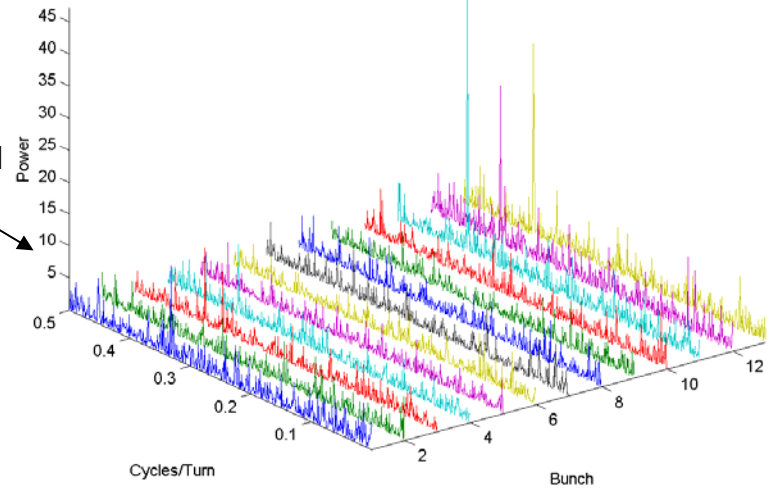




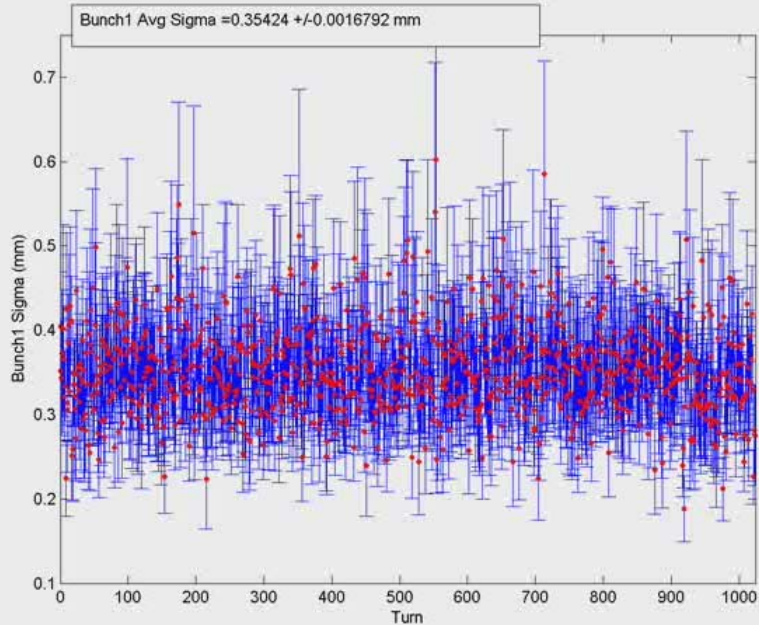
Vertical mean position (movie)

FFT Vertical position

bsm23e01102 results



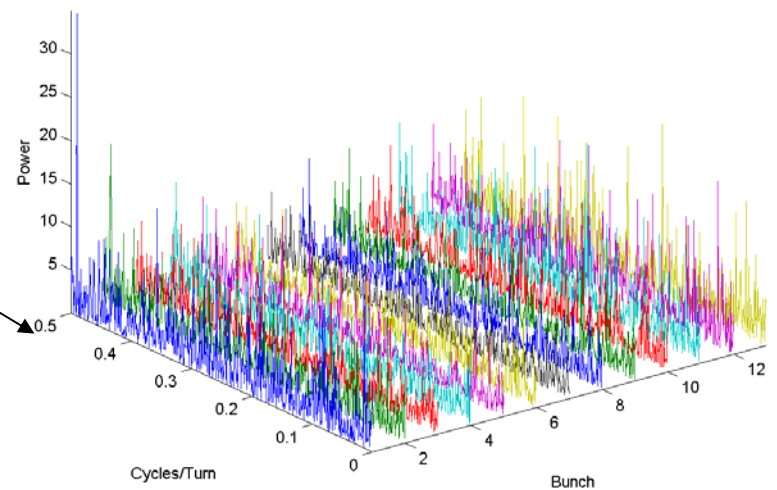
e+ vertical dynamics
 Witness bunch 34,38,42
 File: 1102

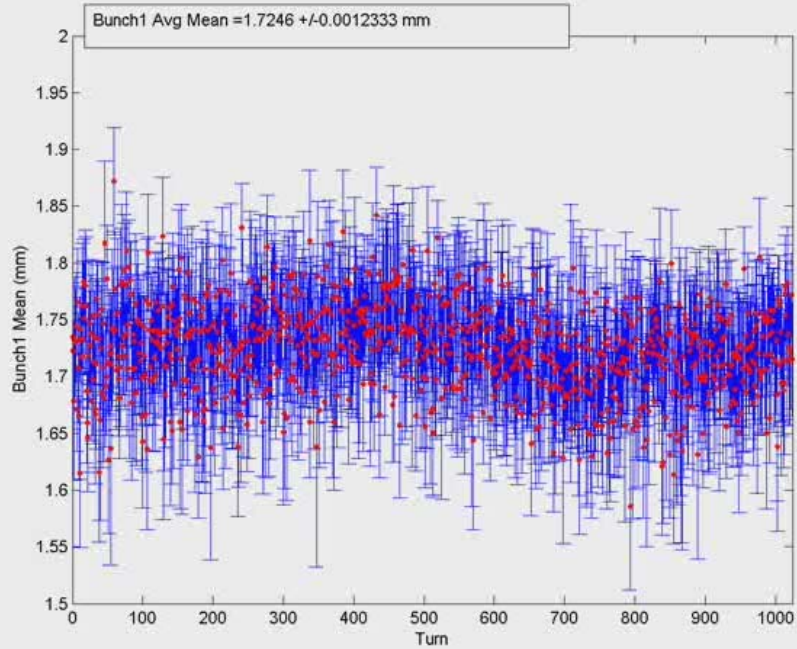


σ_v (movie)

FFT σ_v

bsm23e01102 results





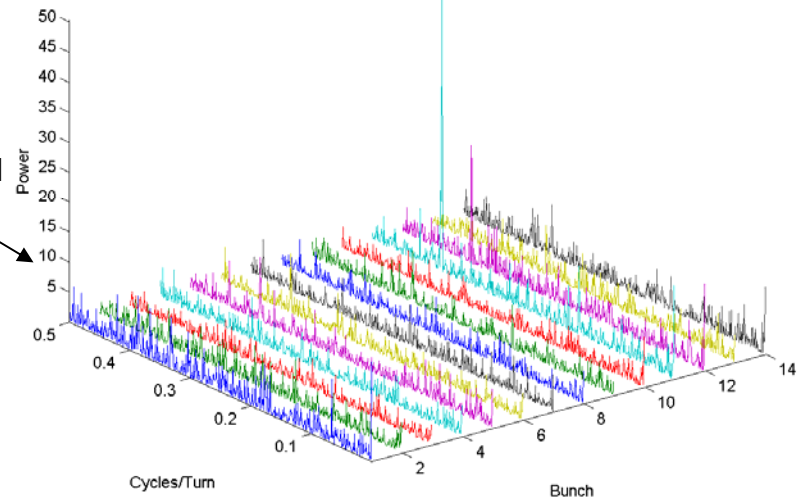
Vertical mean
position
(movie)



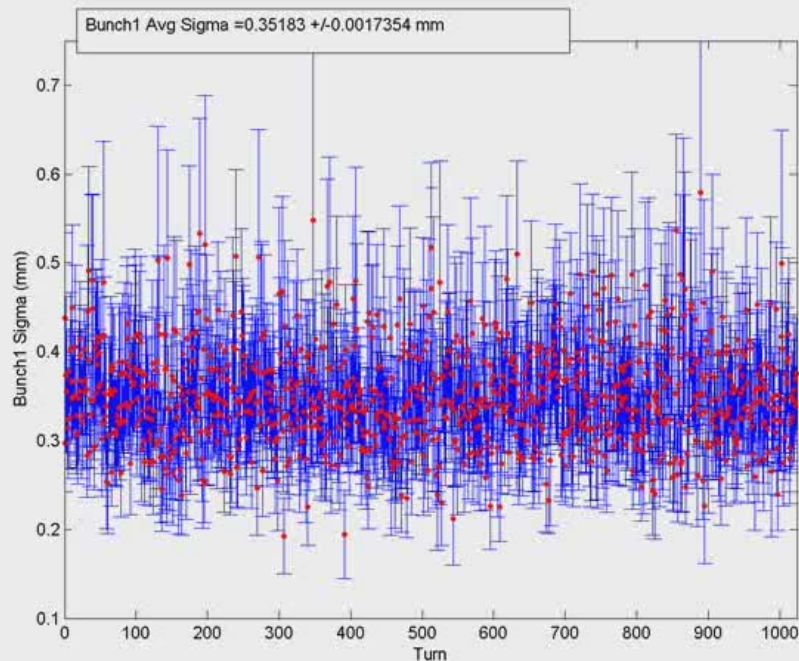
FFT Vertical
position



bsm23e01103 results



e+ vertical dynamics
Witness bunch 30,34,38,42
File: 1103



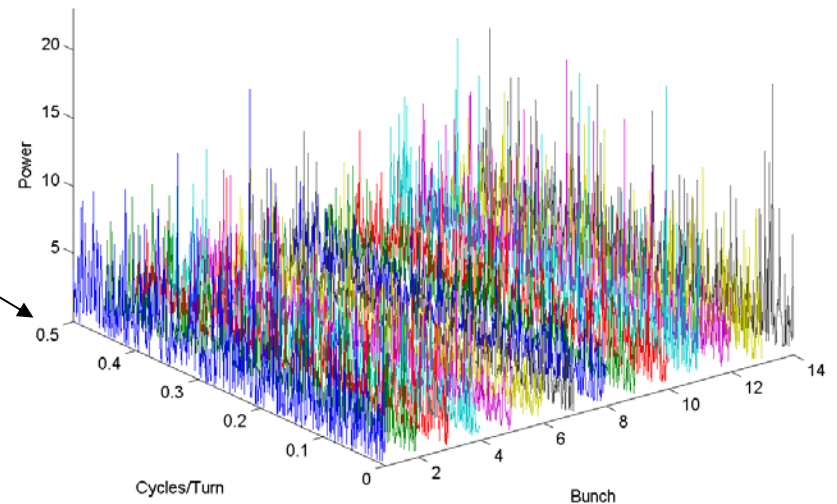
σ_v
(movie)

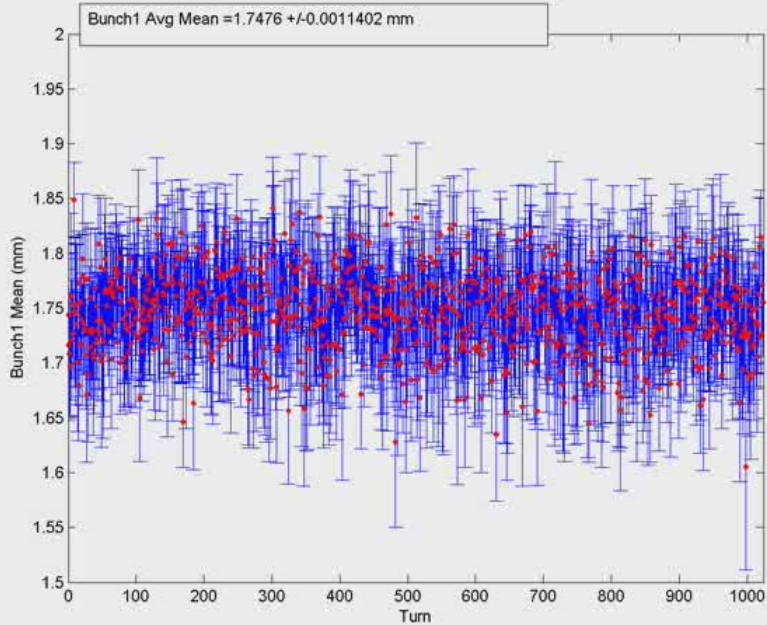


FFT σ_v



bsm23e01103 results

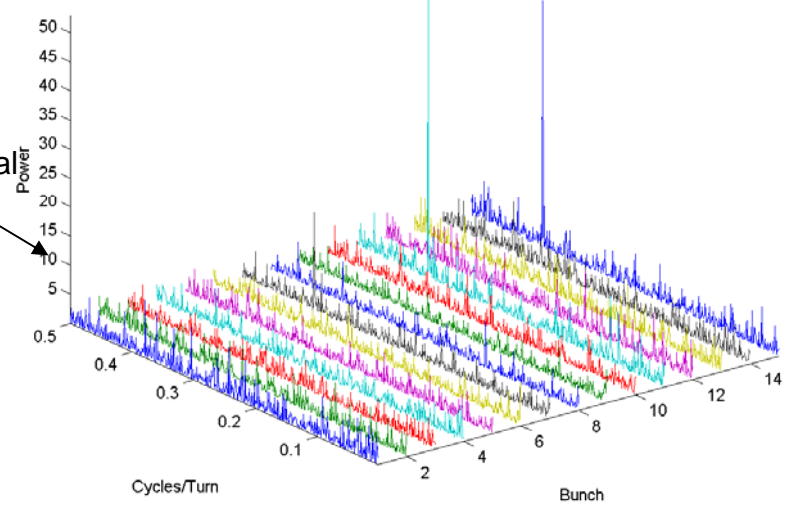




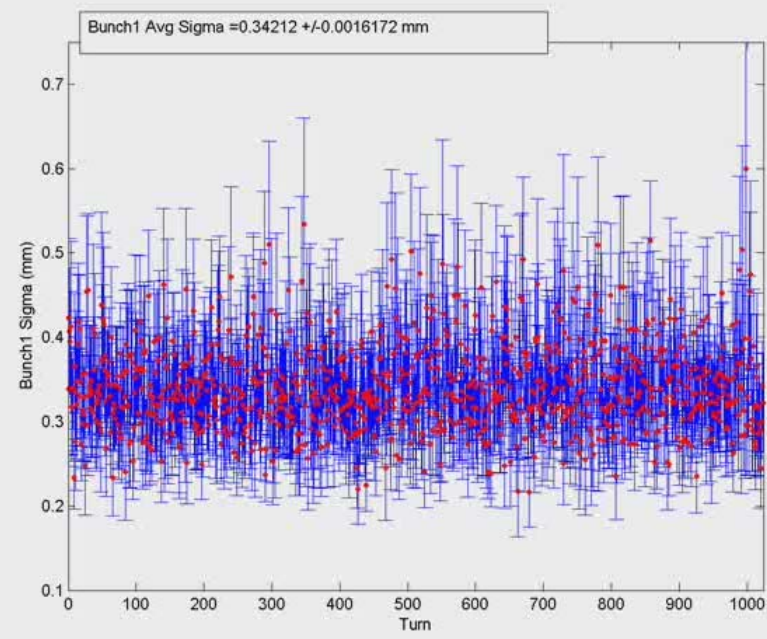
Vertical mean position (movie)

FFT Vertical position

bsm23e01104 results



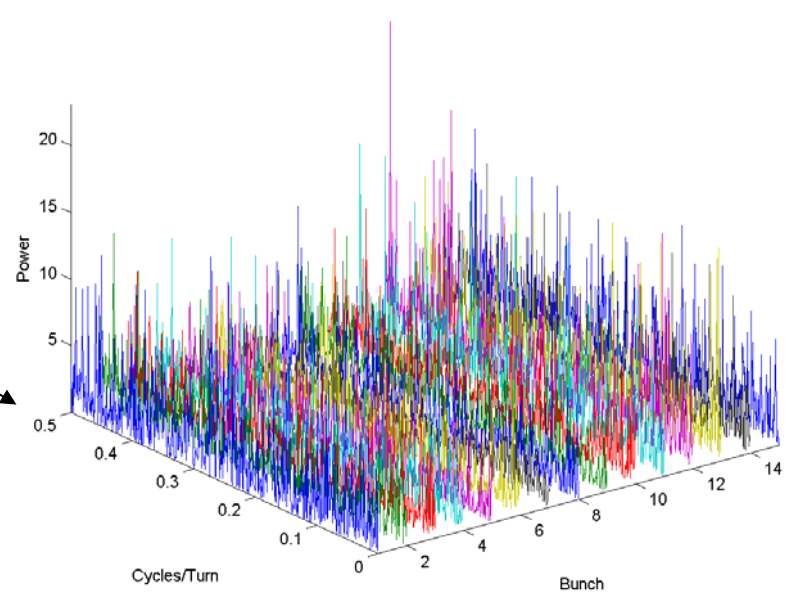
e+ vertical dynamics
 Witness bunch 26,30,34,38,42
 File: 1104

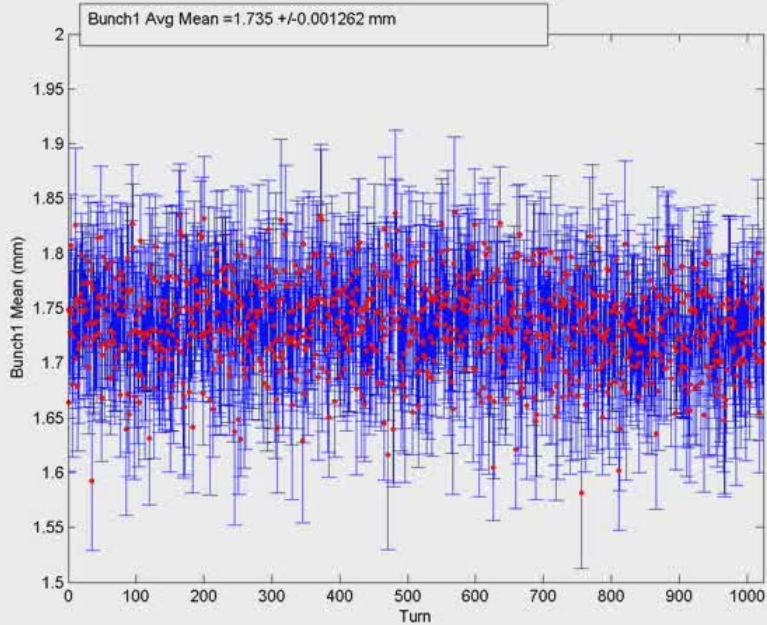


σ_v (movie)

FFT σ_v

bsm23e01104 results

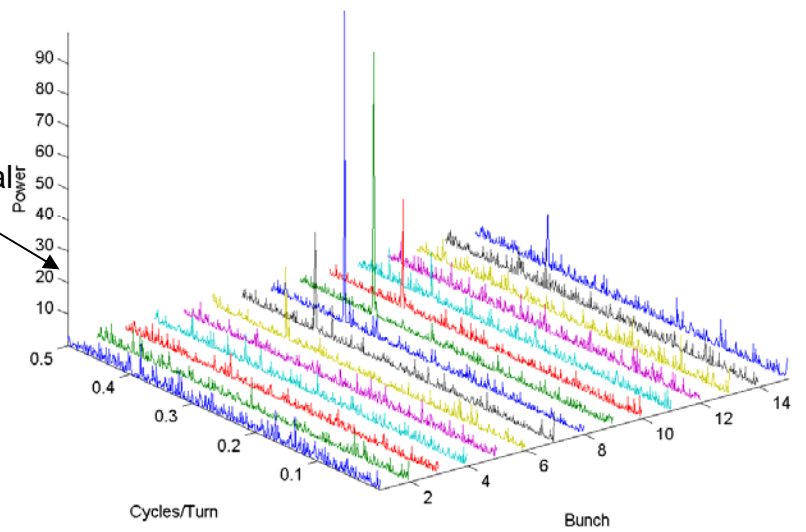




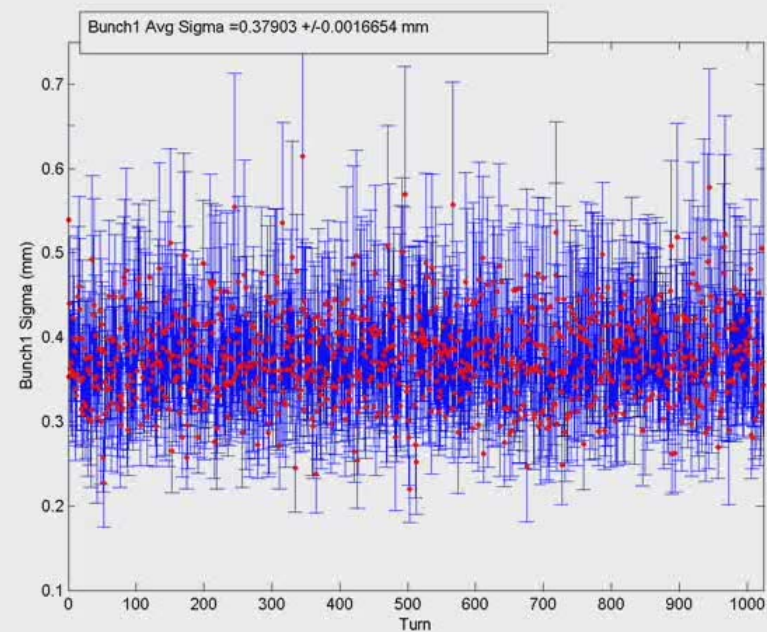
Vertical mean position (movie)

FFT Vertical position

bsm23e01105 results



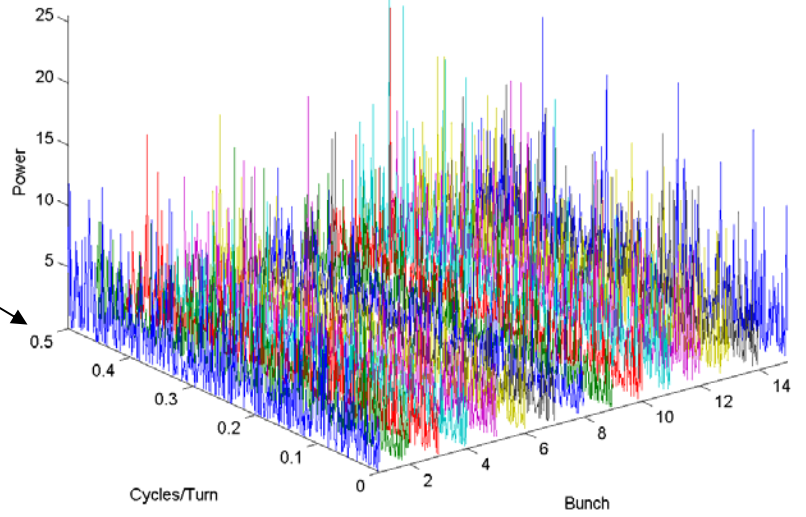
e+ vertical dynamics
 Witness bunch 22,26,30,34,38
 File: 1105

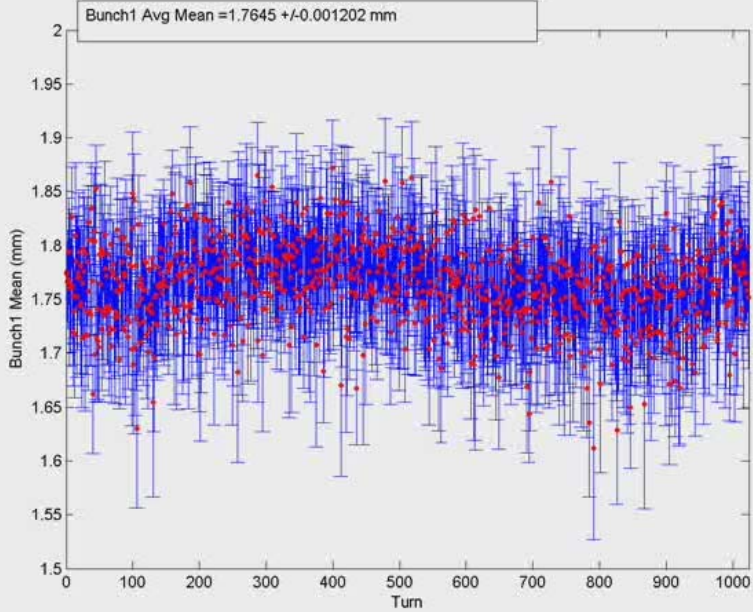


σ_v (movie)

FFT σ_v

bsm23e01105 results





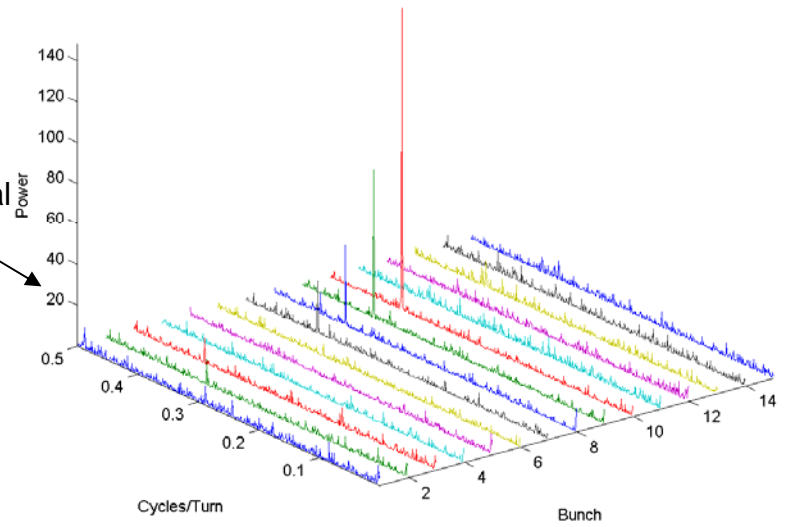
Vertical mean position (movie)



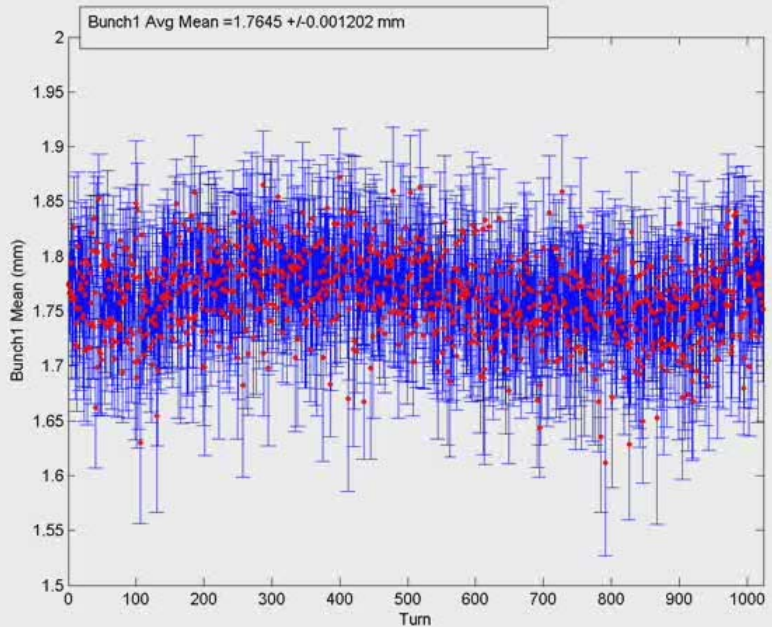
FFT Vertical position



bsm23e01106 results



e+ vertical dynamics
 Witness bunch 20,22,26,30,34
 File: 1106



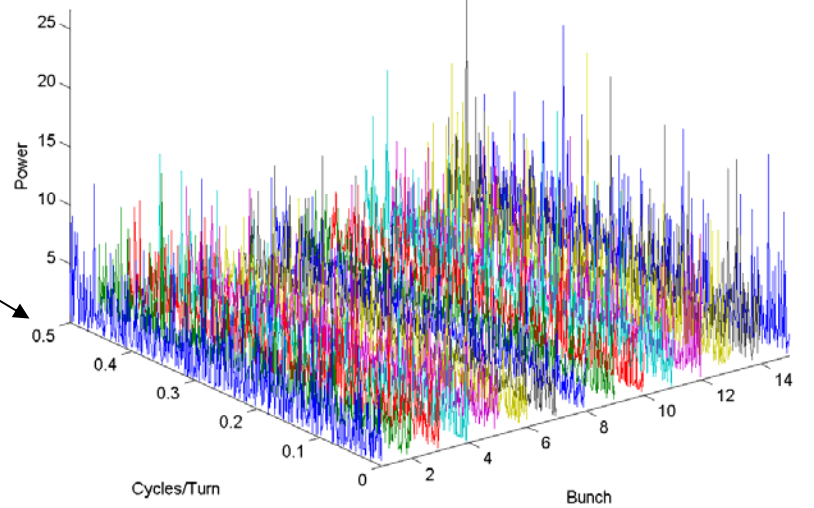
σ_v (movie)

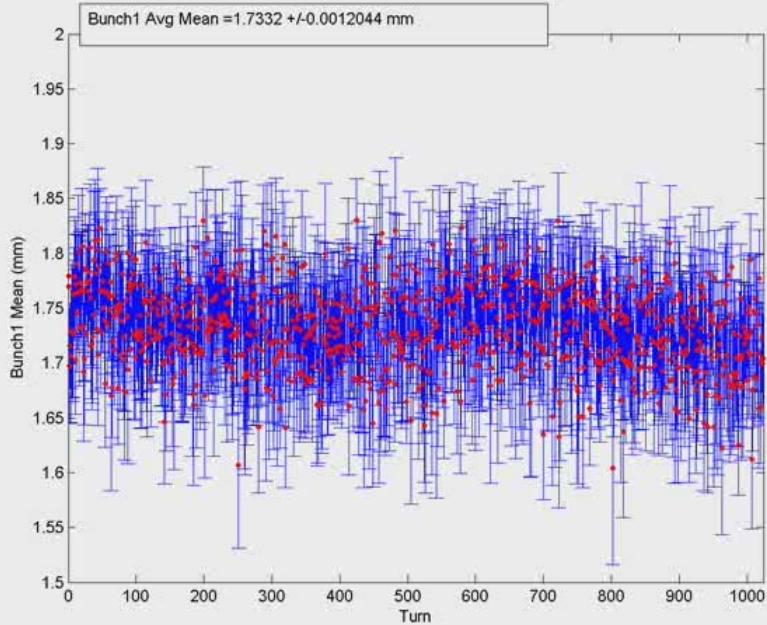


FFT σ_v



bsm23e01106 results

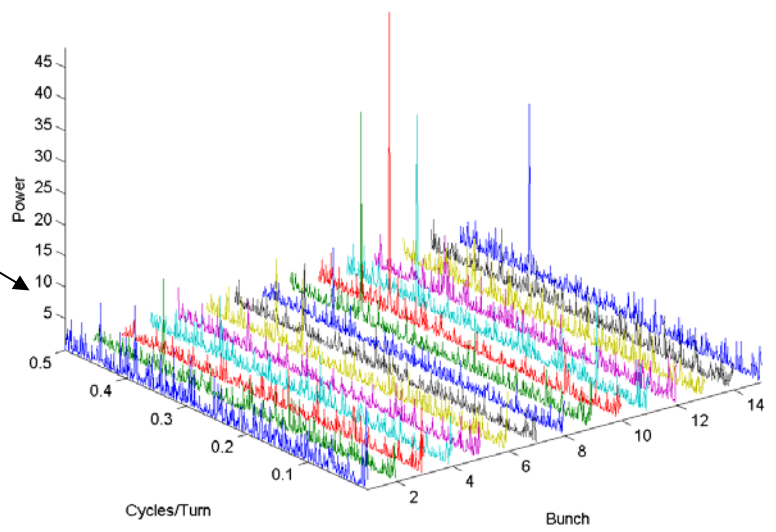




Vertical mean position (movie)

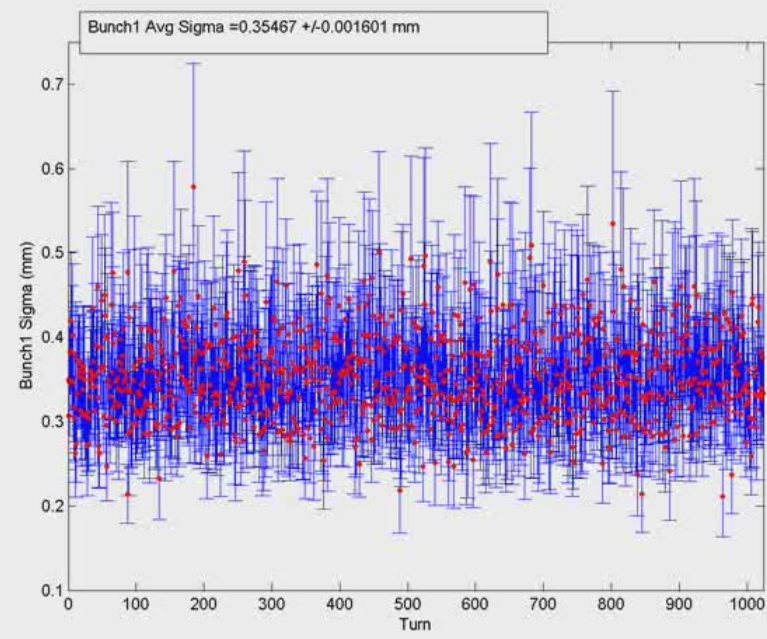
FFT Vertical position

bsm23e01107 results



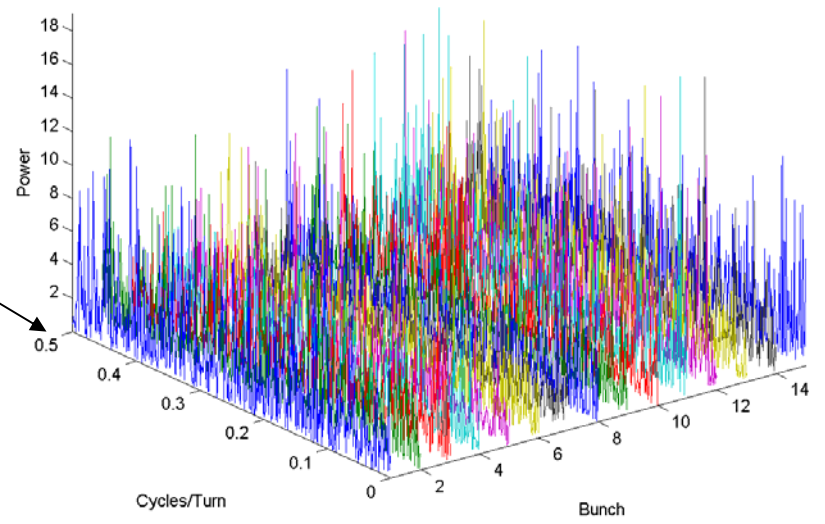
e+ vertical dynamics
 Witness bunch 19,20,22,26,30
 File: 1107

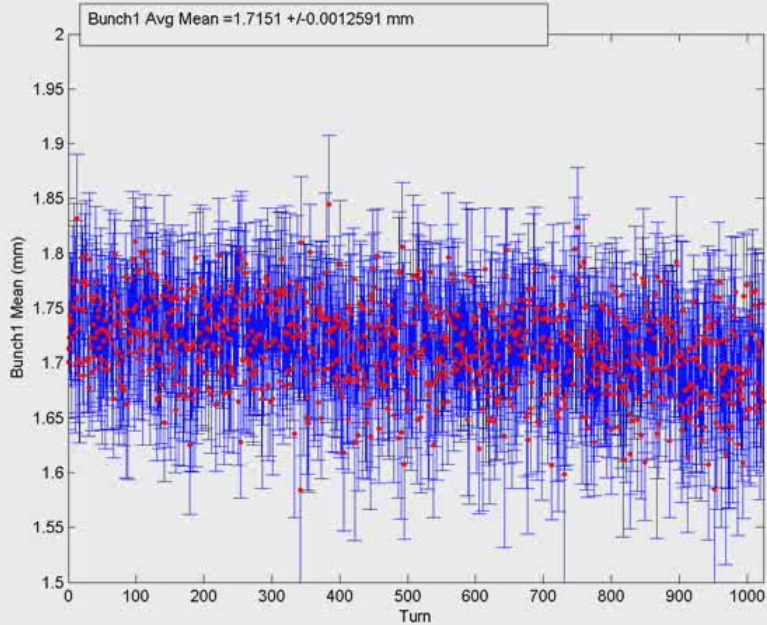
bsm23e01107 results



σ_v (movie)

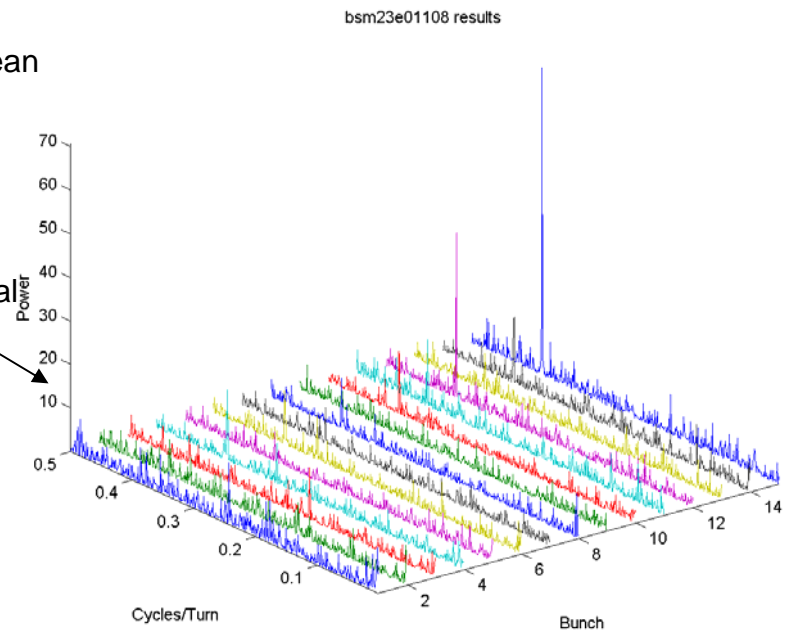
FFT σ_v





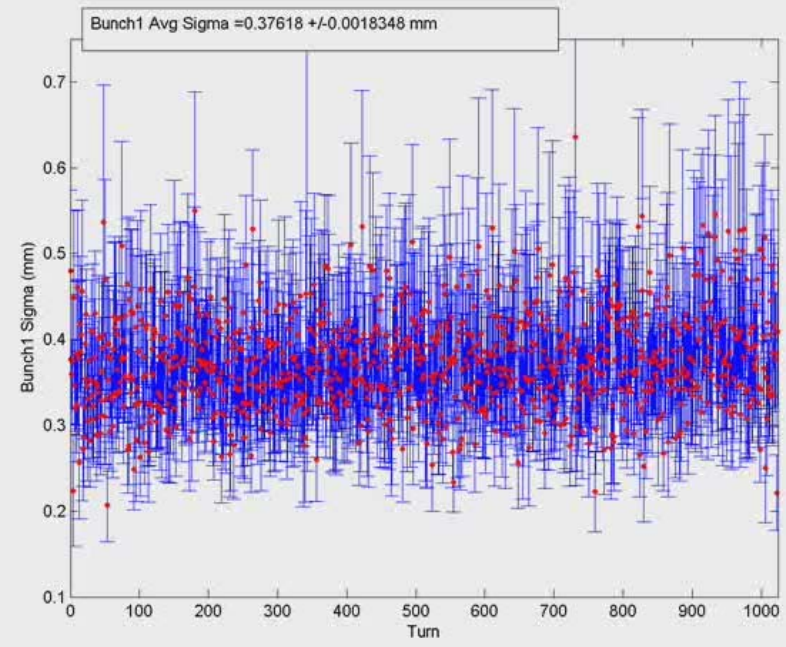
Vertical mean position (movie)

FFT Vertical position



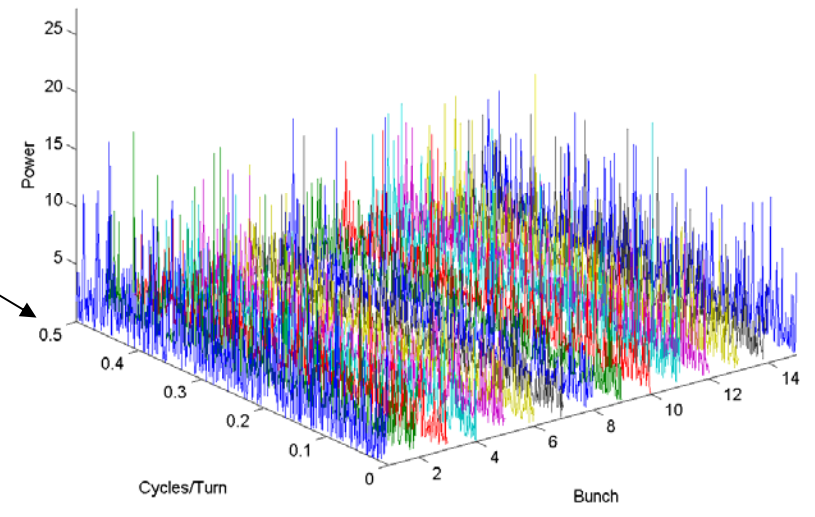
e+ vertical dynamics
 Witness bunch 18,19,20,22,26
 File: 1108

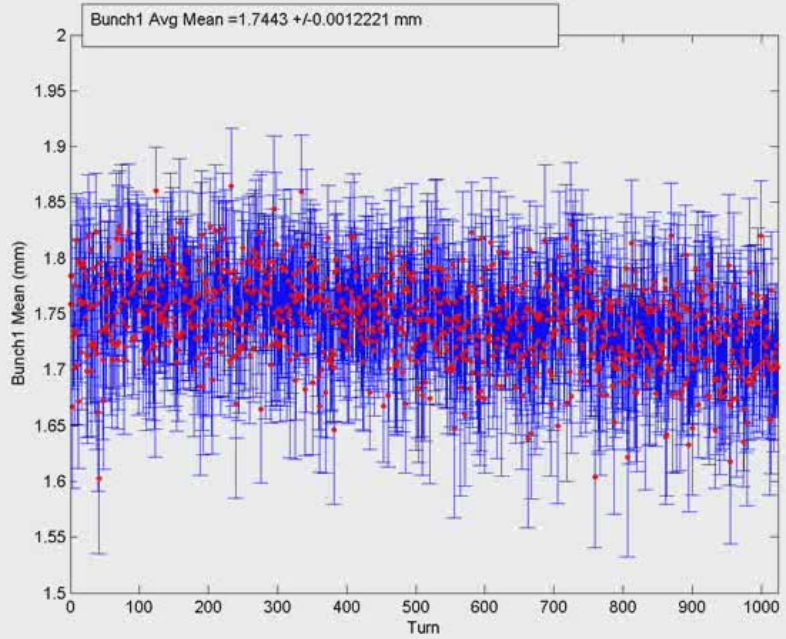
bsm23e01108 results



σ_v (movie)

FFT σ_v

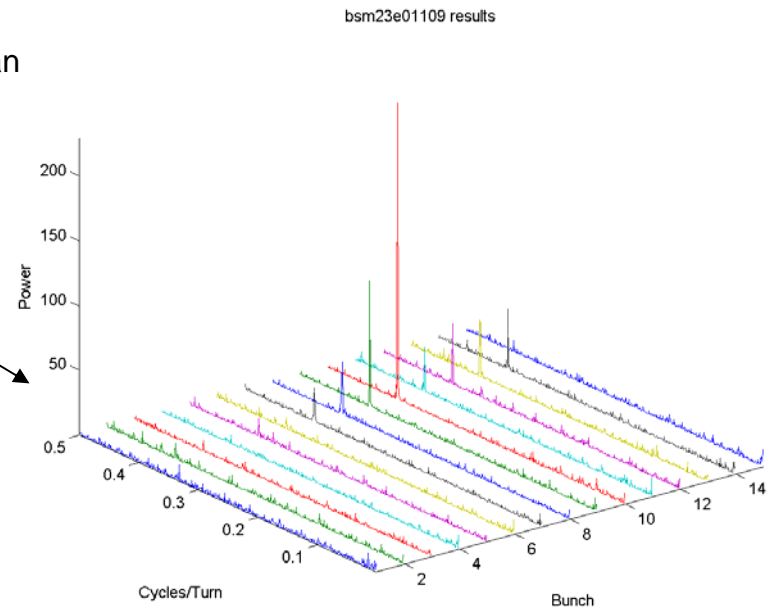




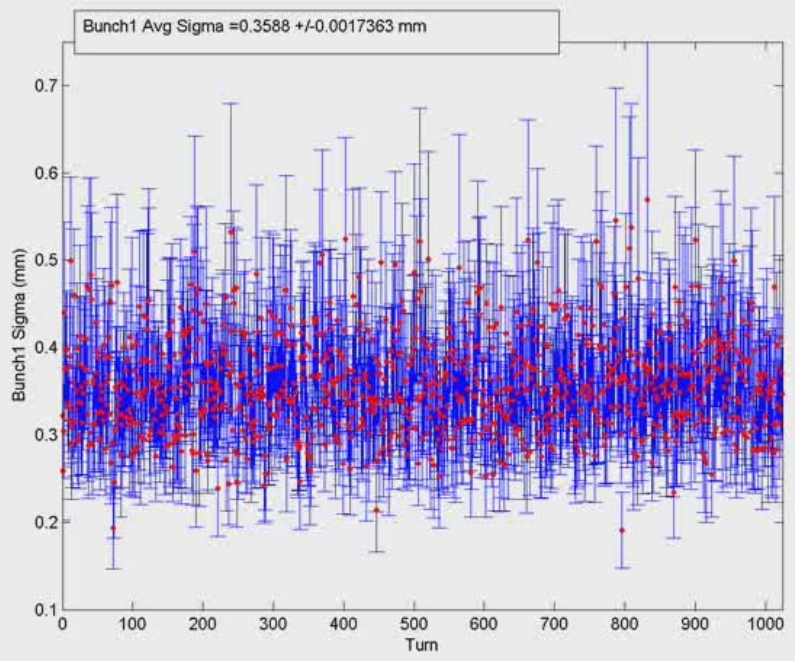
Vertical mean position (movie)



FFT Vertical position



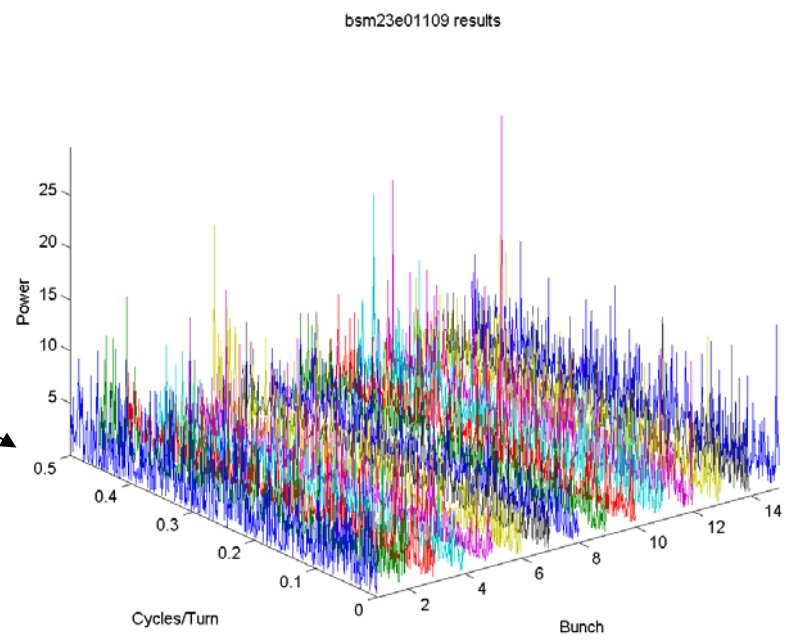
e+ vertical dynamics
 Witness bunch 17,18,19,20,22
 File: 1109

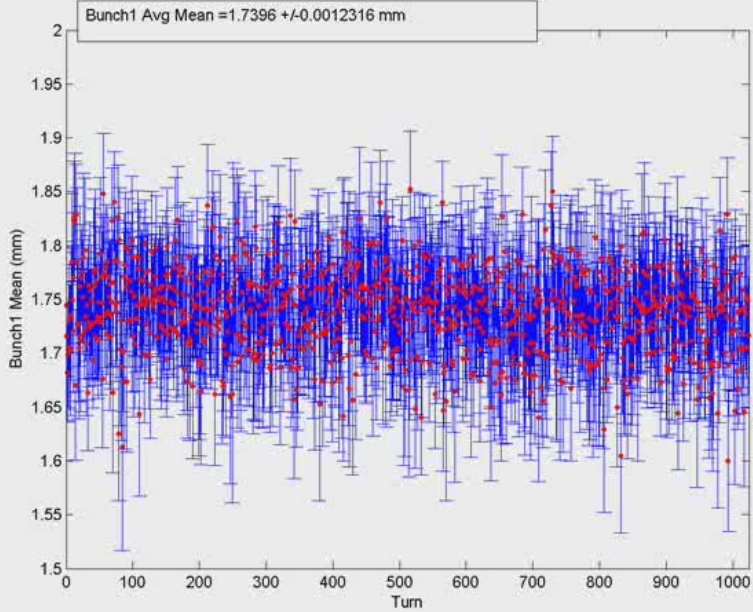


σ_v (movie)



FFT σ_v





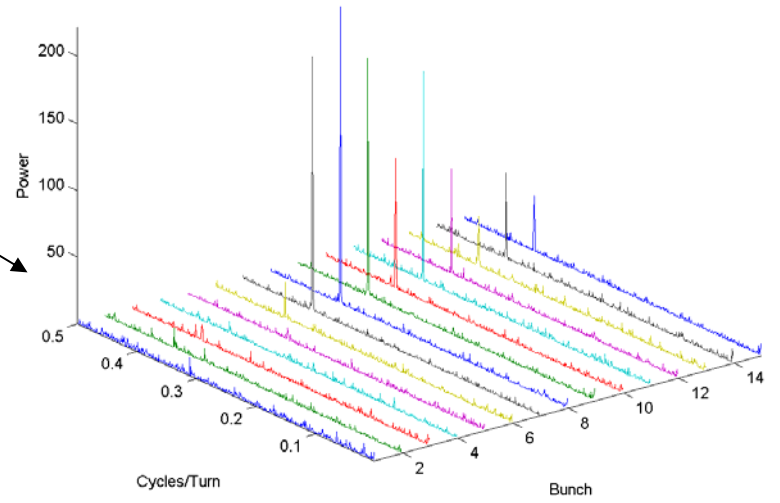
Vertical mean
position
(movie)



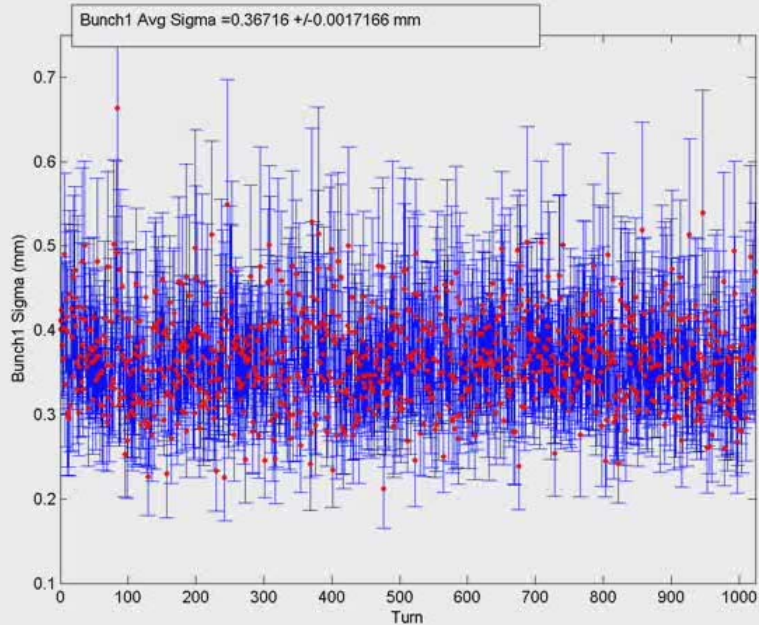
FFT Vertical
position



bsm23e01110 results



e+ vertical dynamics
Witness bunch 16,17,18,19,20
File: 1110



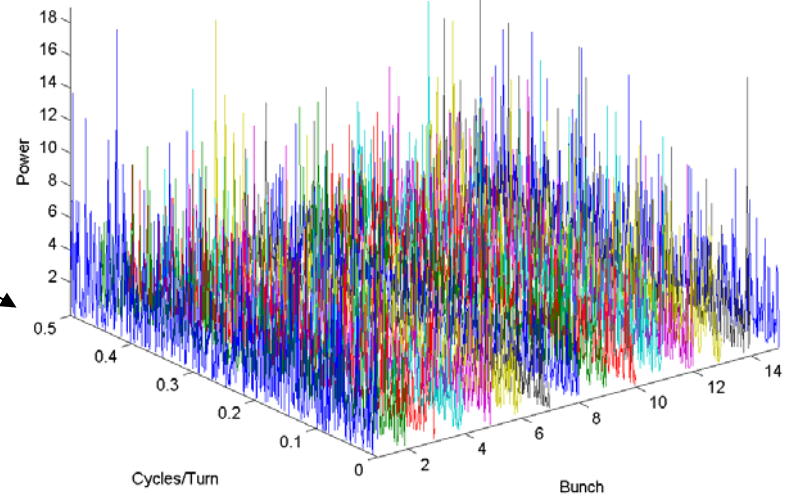
σ_v
(movie)

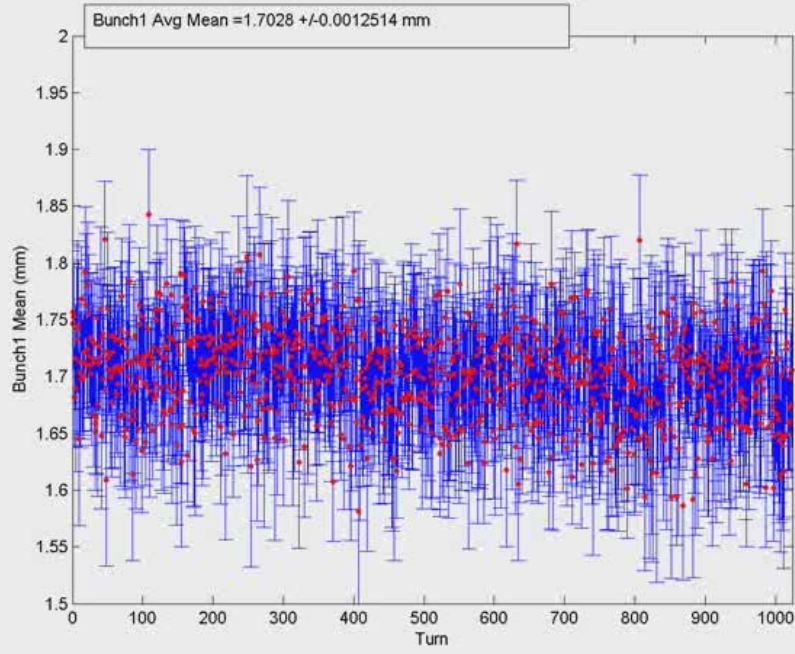


FFT σ_v



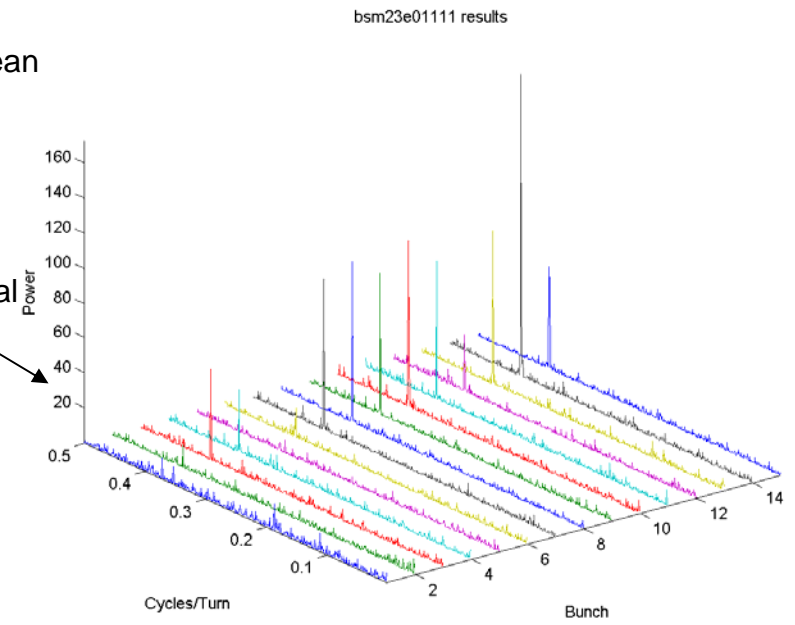
bsm23e01110 results



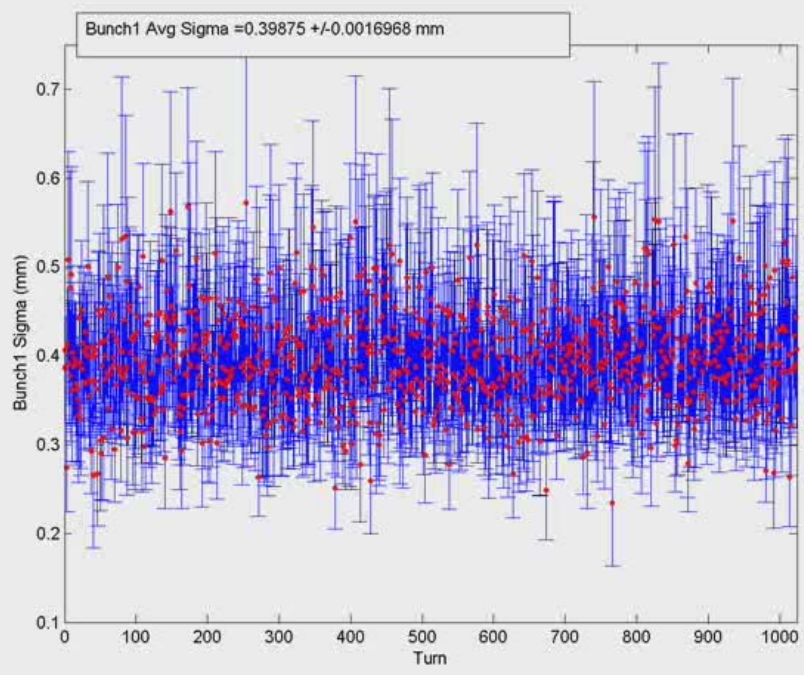


Vertical mean position (movie)

FFT Vertical position

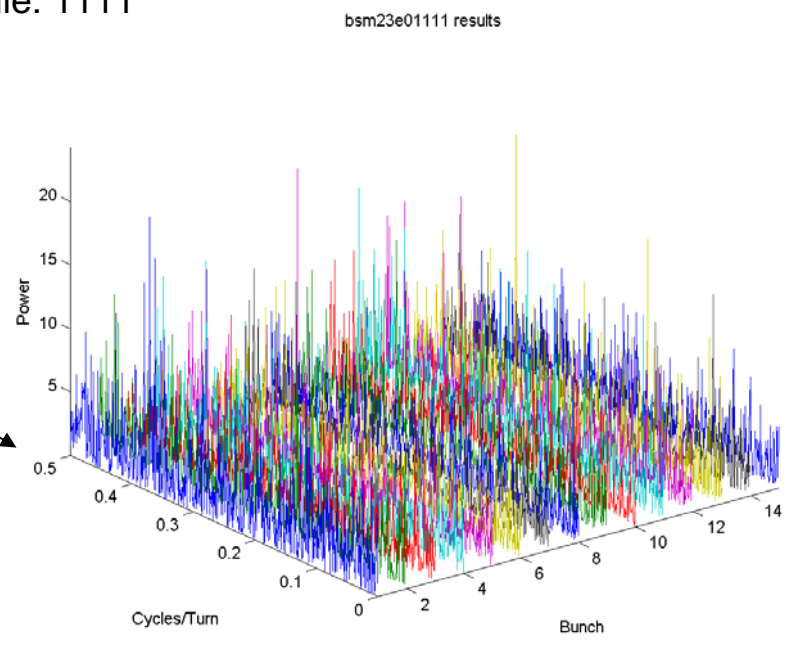


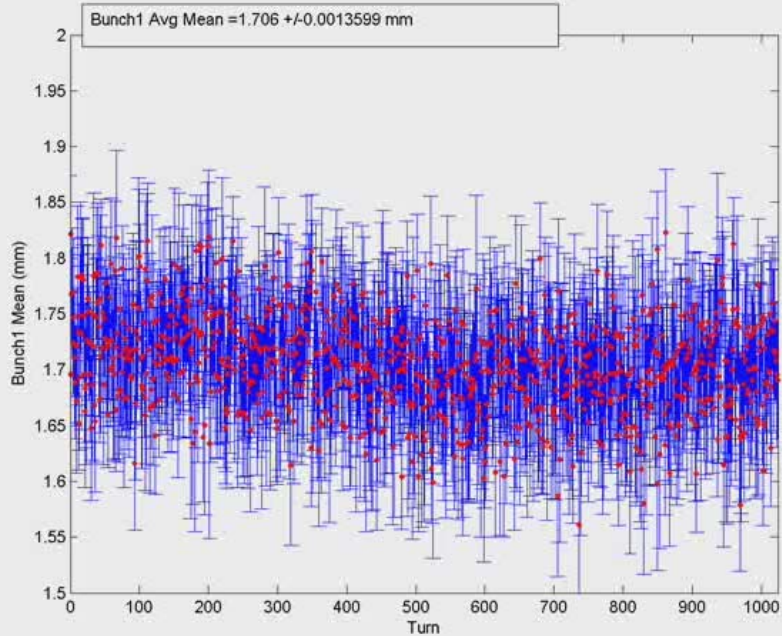
e+ vertical dynamics
 Witness bunch 15,16,17,18,19
 File: 1111



σ_v (movie)

FFT σ_v





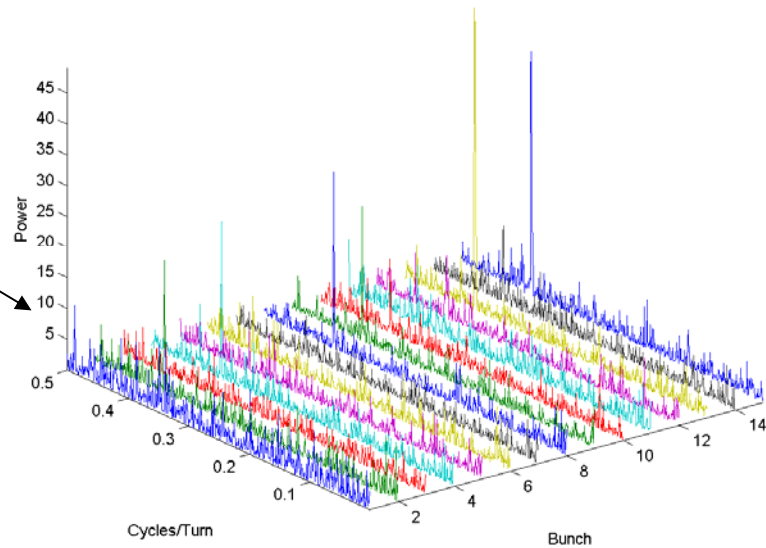
Vertical mean
position
(movie)



FFT Vertical
position



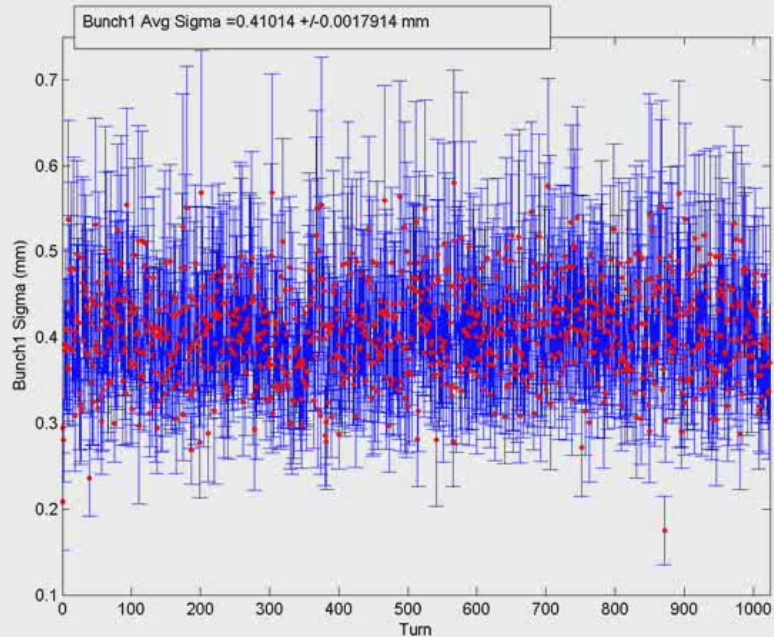
bsm23e01112 results



e+ vertical dynamics

Witness bunch 14,15,16,17,18

File: 1112



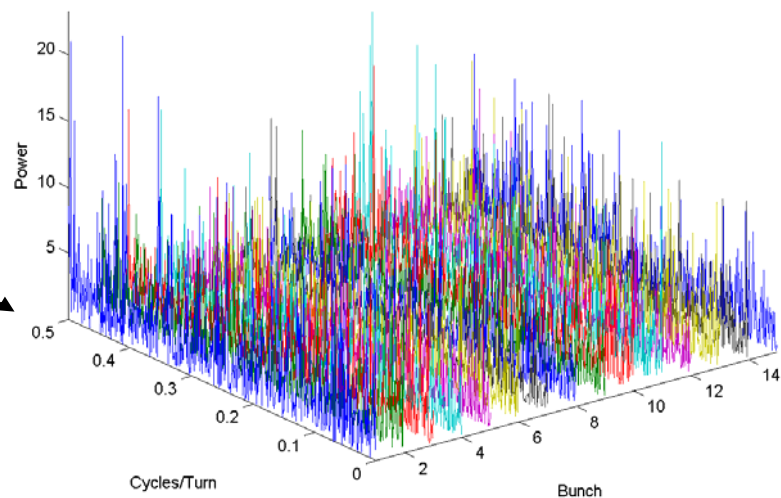
σ_v
(movie)

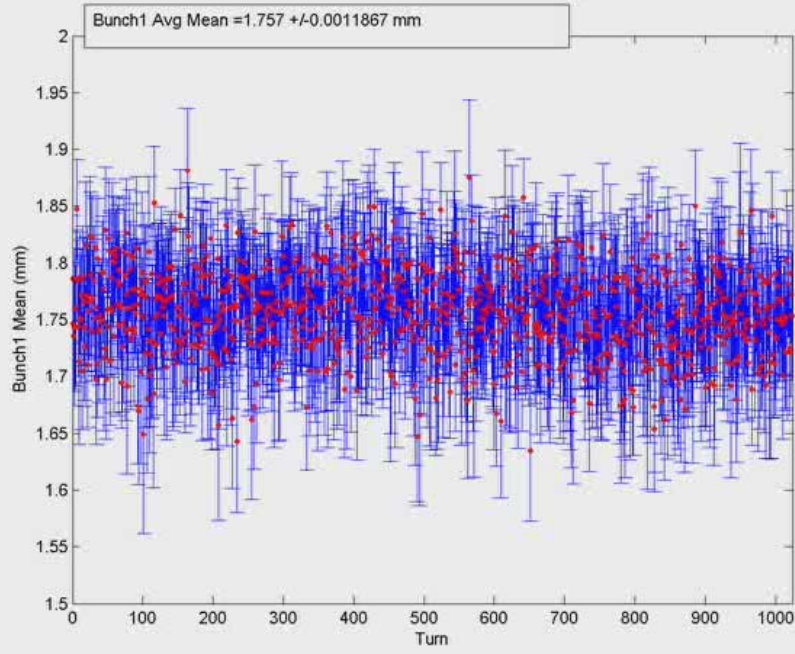


FFT σ_v



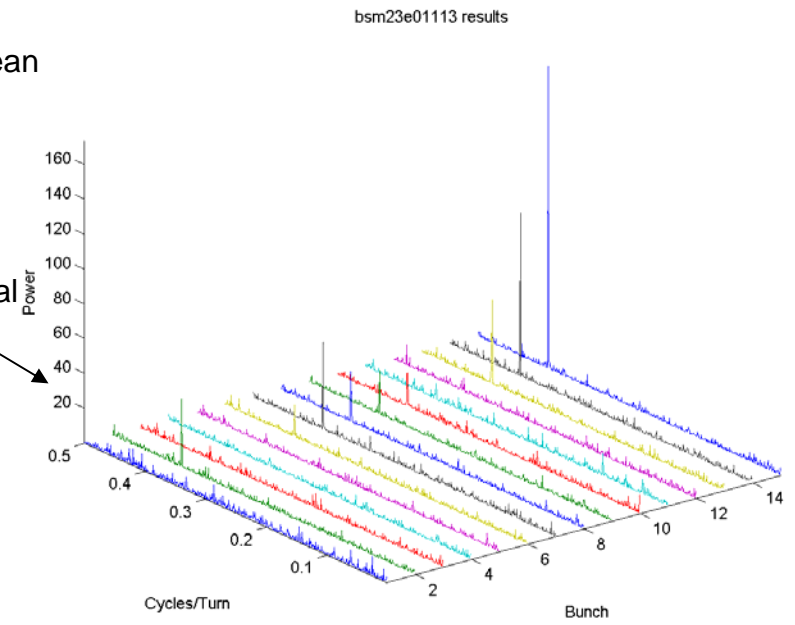
bsm23e01112 results



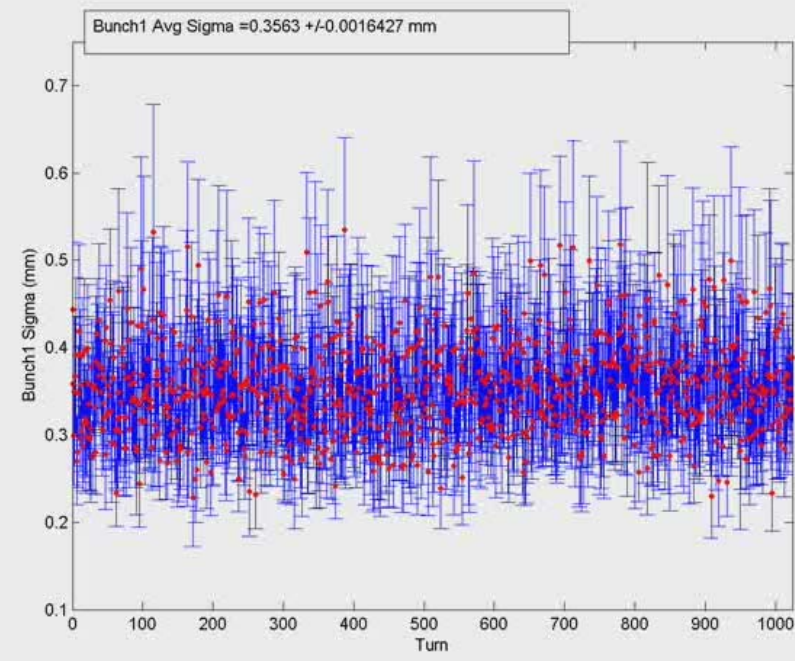


Vertical mean position (movie)

FFT Vertical position

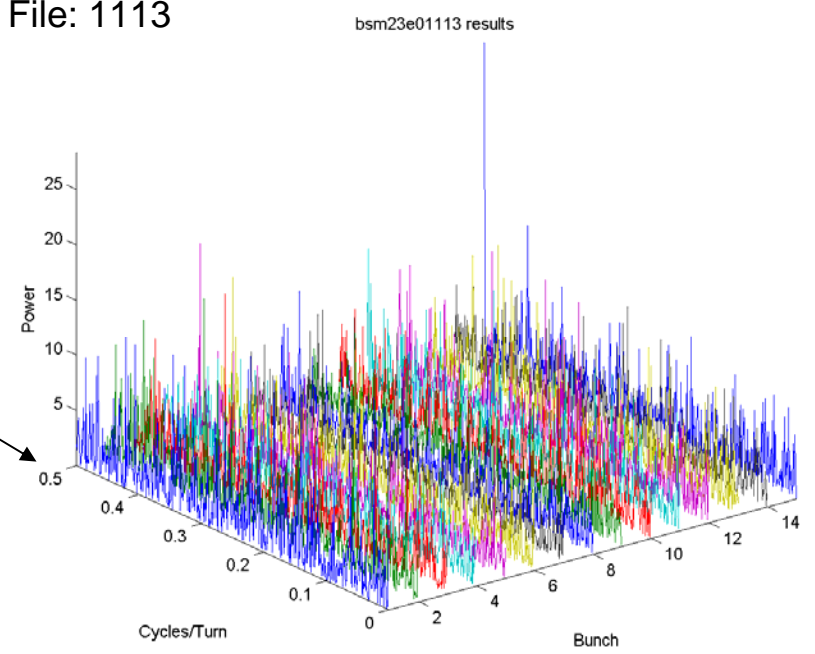


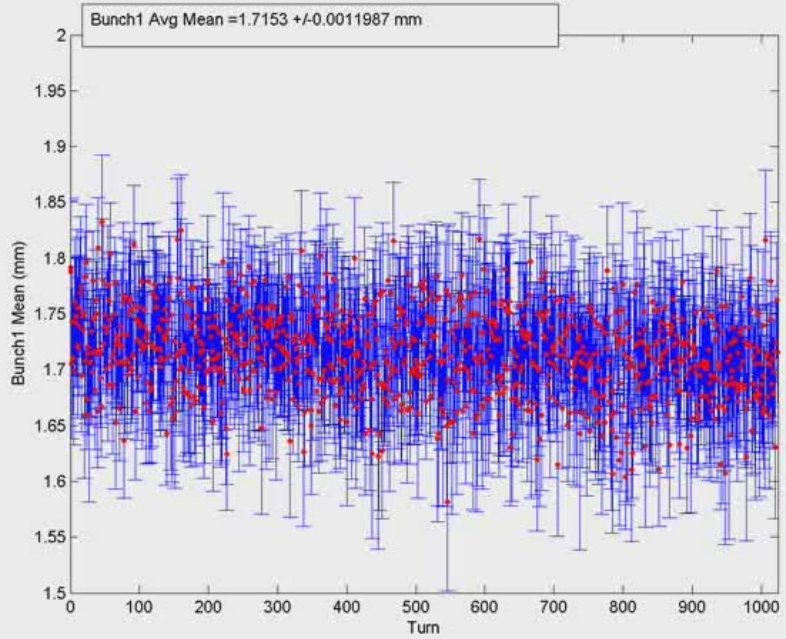
e+ vertical dynamics
 Witness bunch 13,14,15,16,17
 File: 1113



σ_v (movie)

FFT σ_v

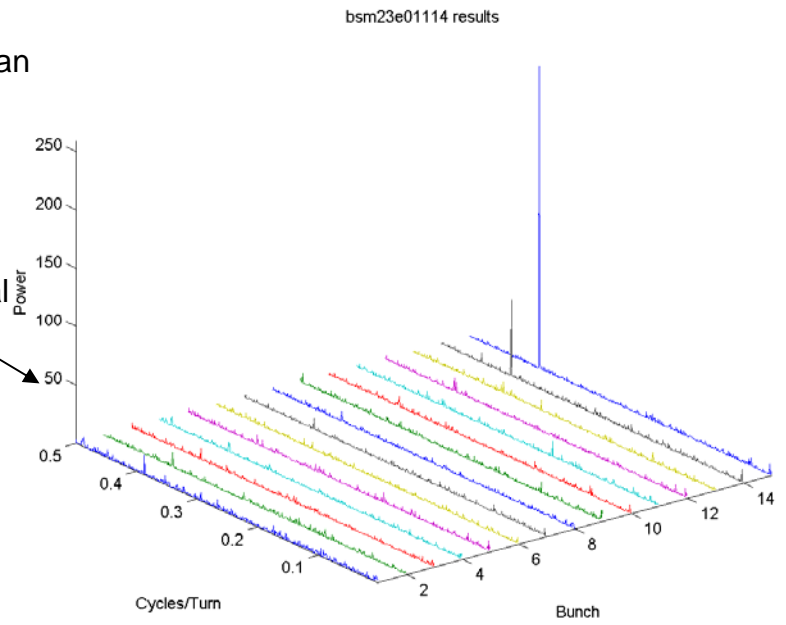




Vertical mean position (movie)



FFT Vertical position

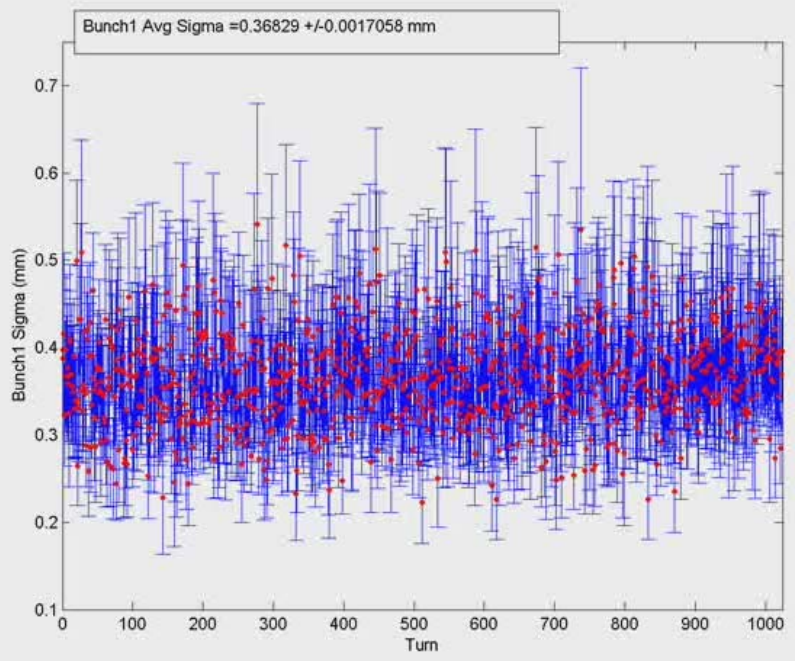


e+ vertical dynamics

Witness bunch 12,13,14,15,16

bsm23e01114 results

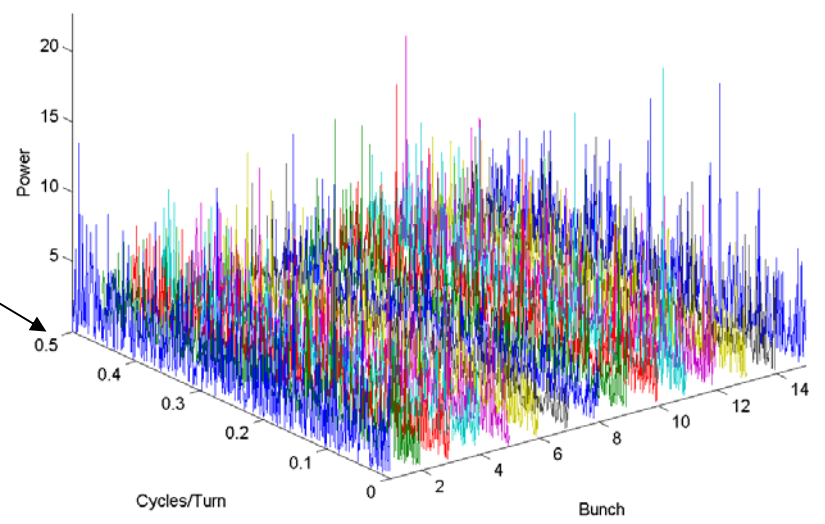
File: 1114

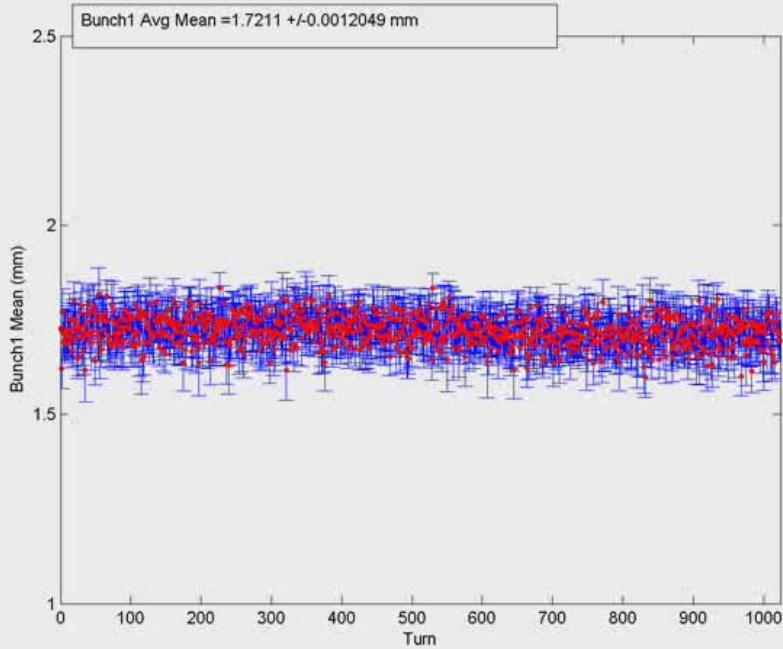


σ_v (movie)



FFT σ_v

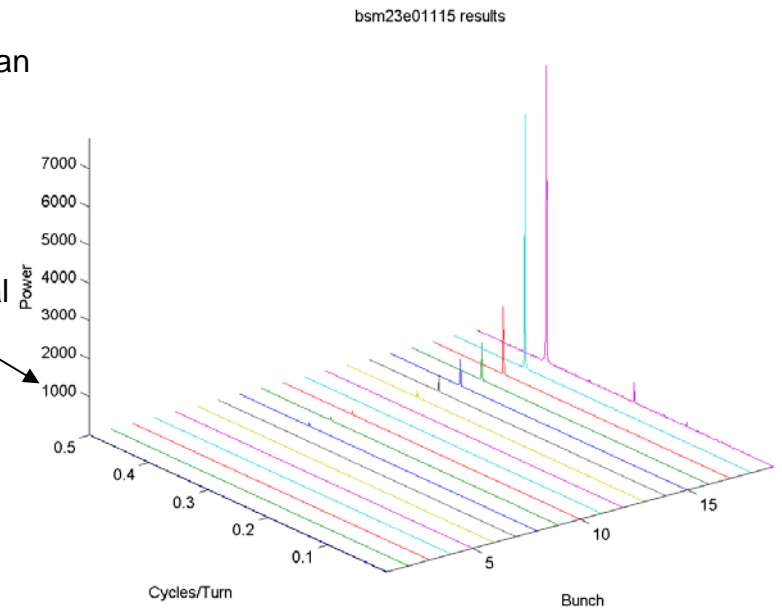




Vertical mean position (movie)

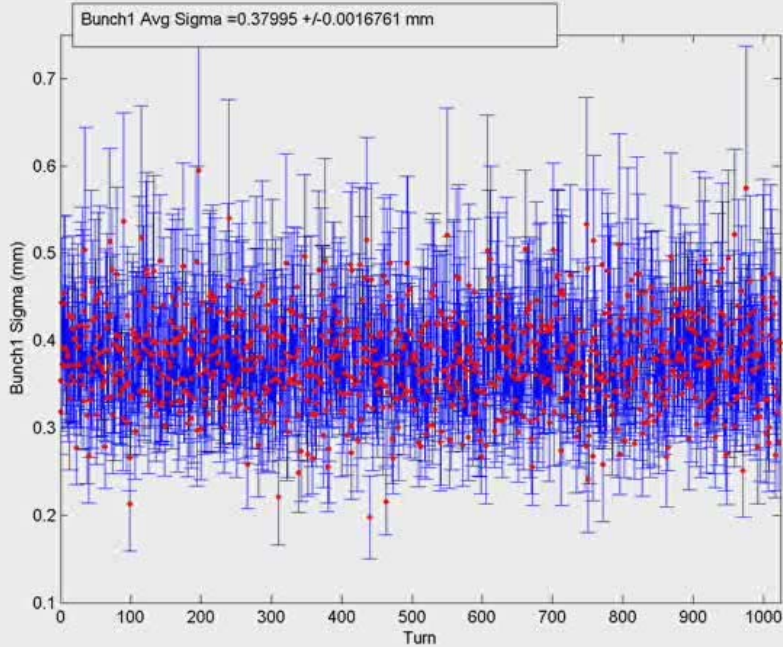


FFT Vertical position



e+ vertical dynamics
Witness bunch 12-20
File: 1115

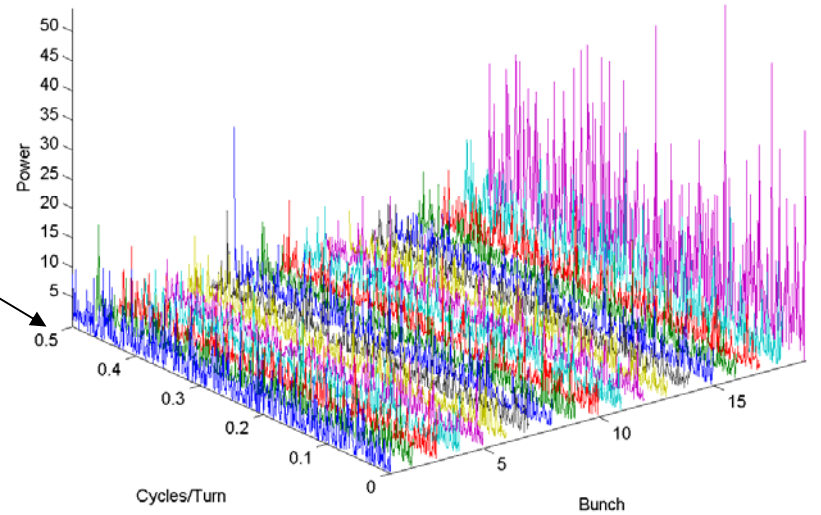
bsm23e01115 results

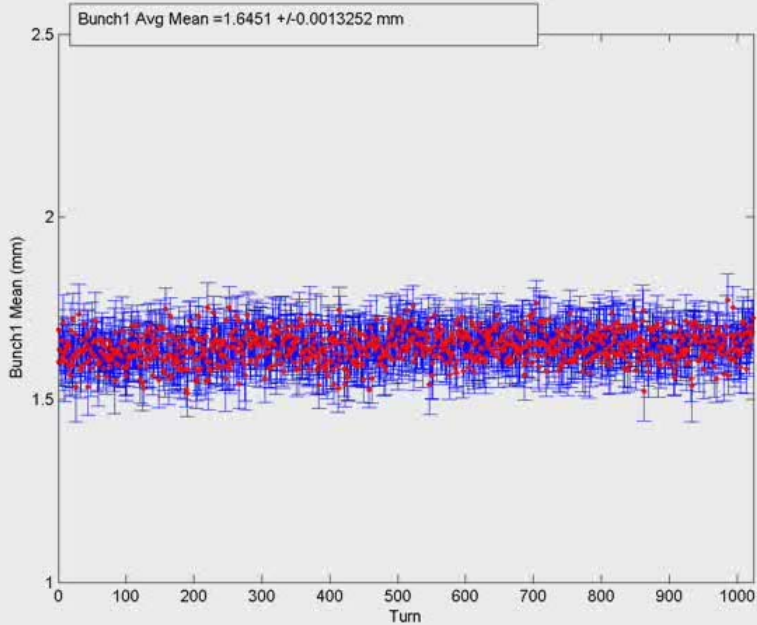


σ_v (movie)



FFT σ_v

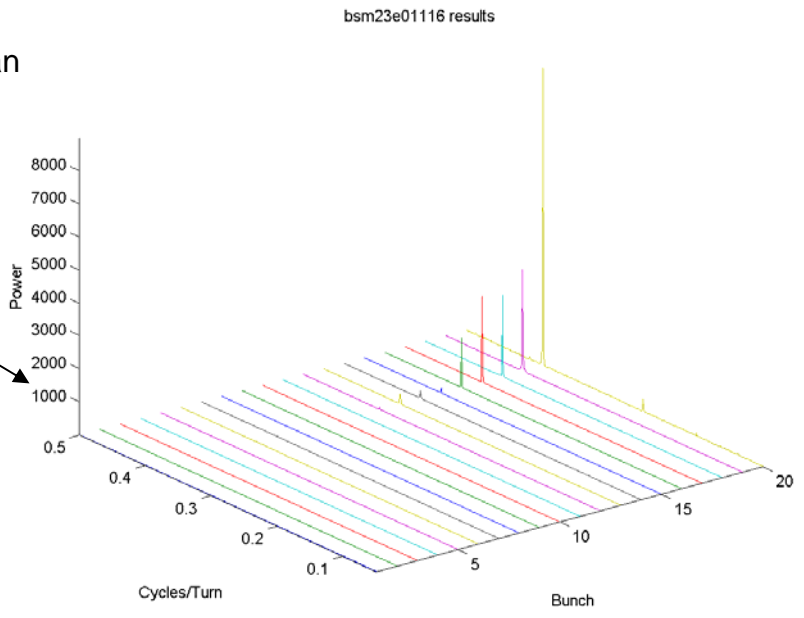




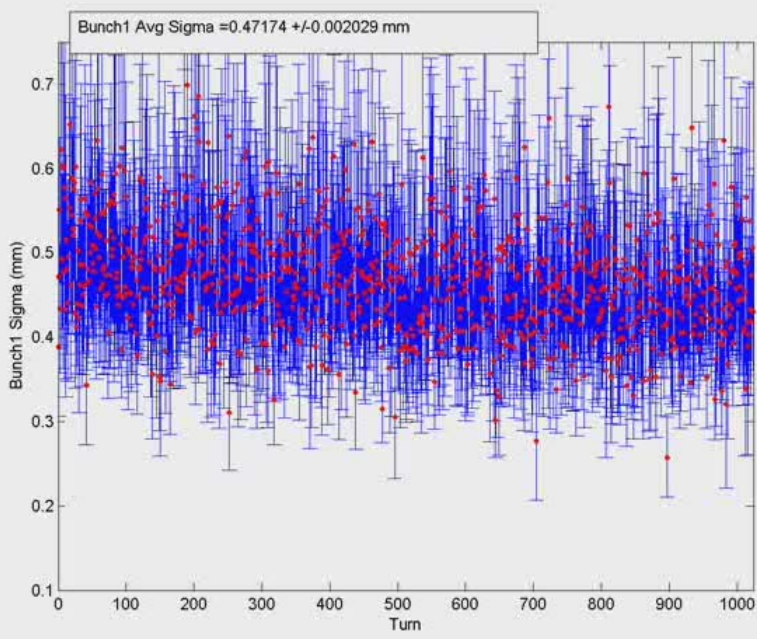
Vertical mean position (movie)



FFT Vertical position



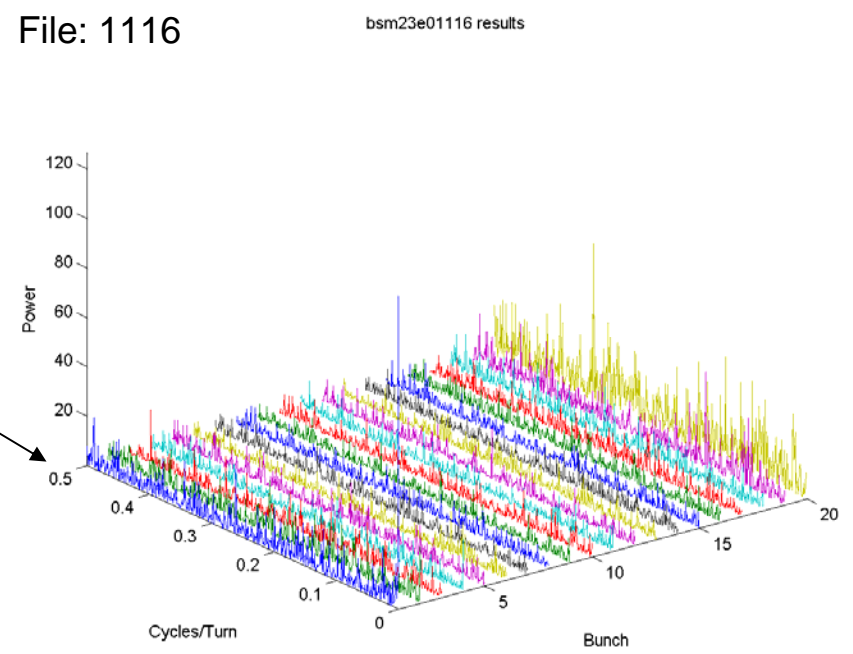
e+ vertical dynamics
20 Bunches
File: 1116



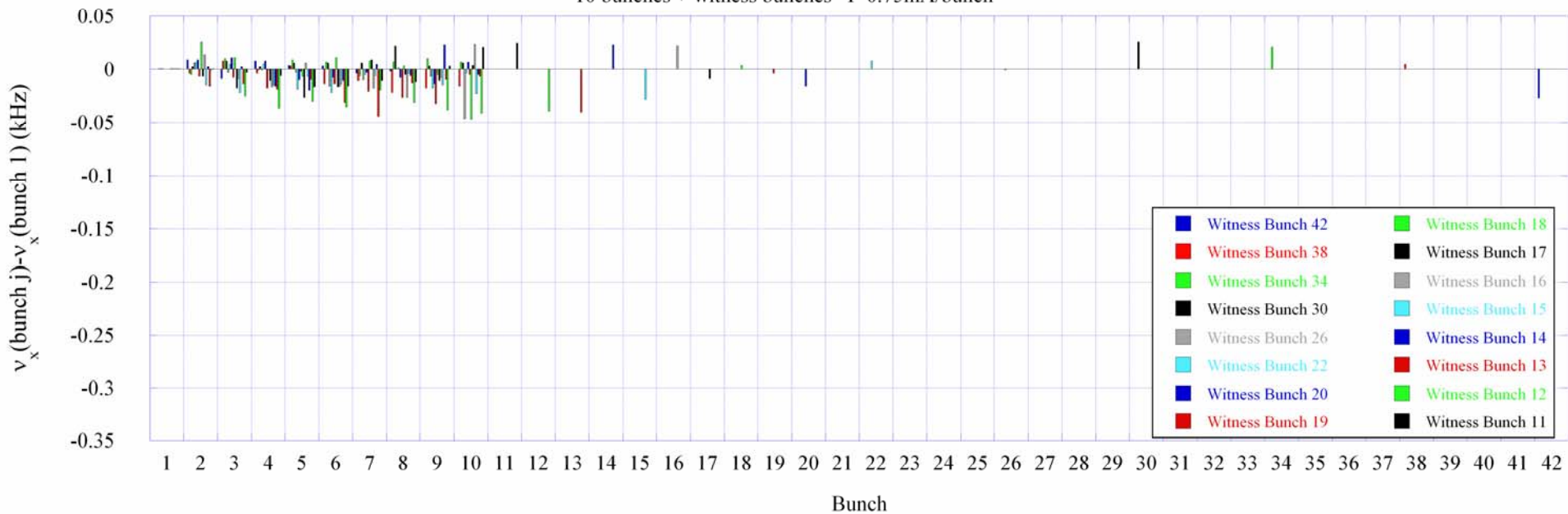
σ_v (movie)



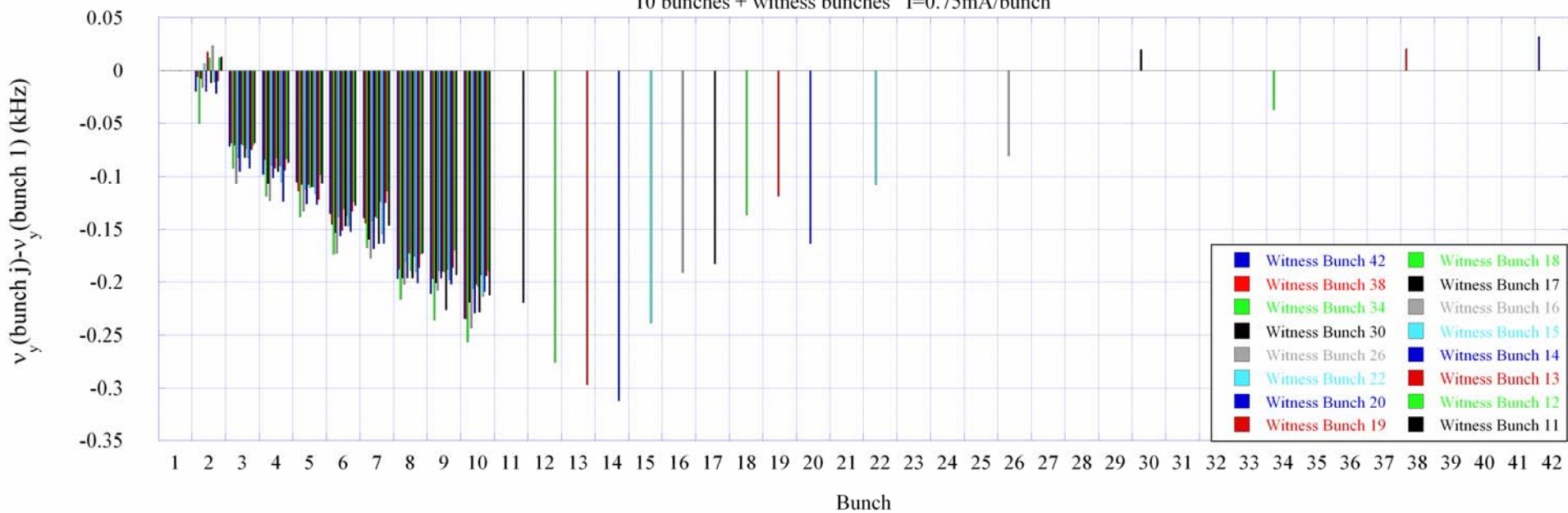
FFT σ_v

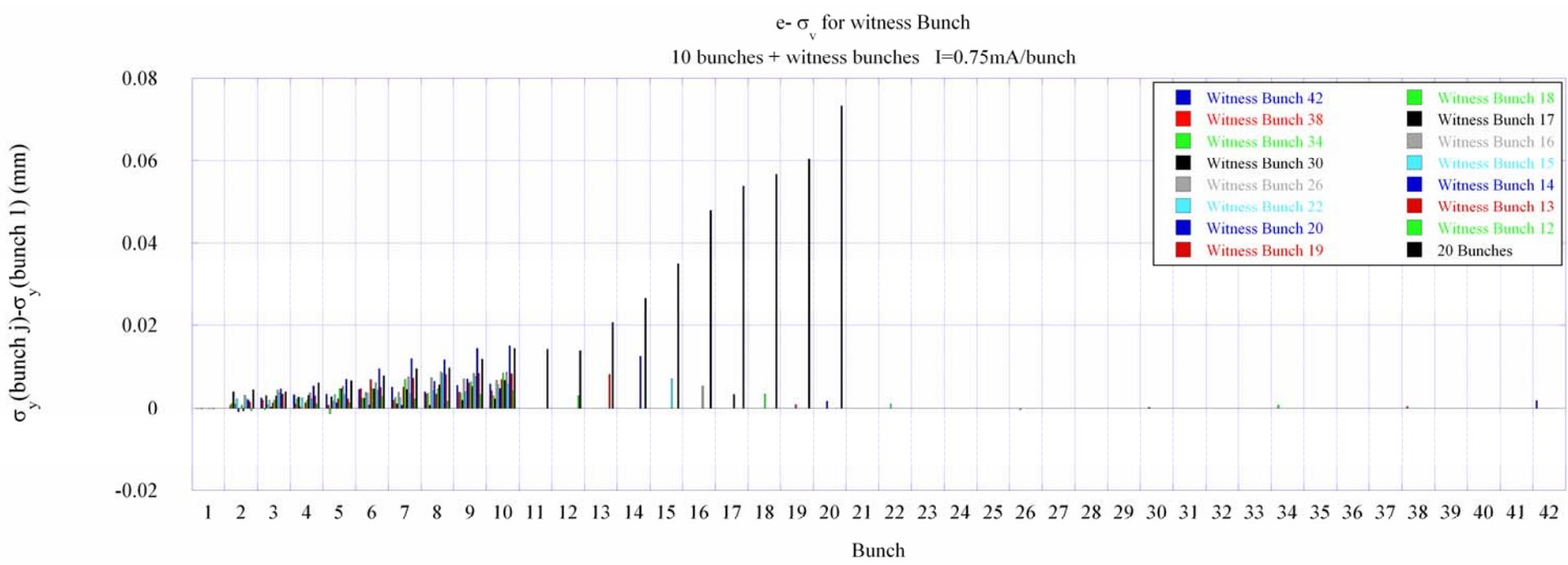
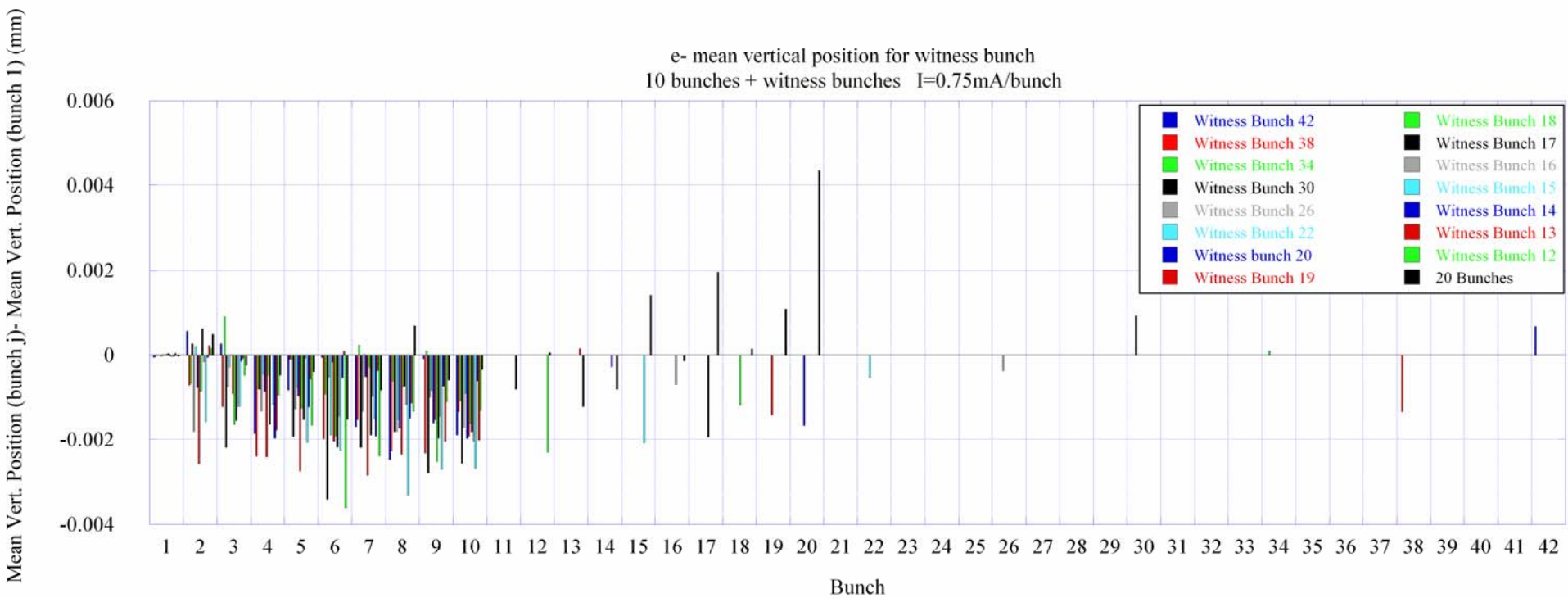


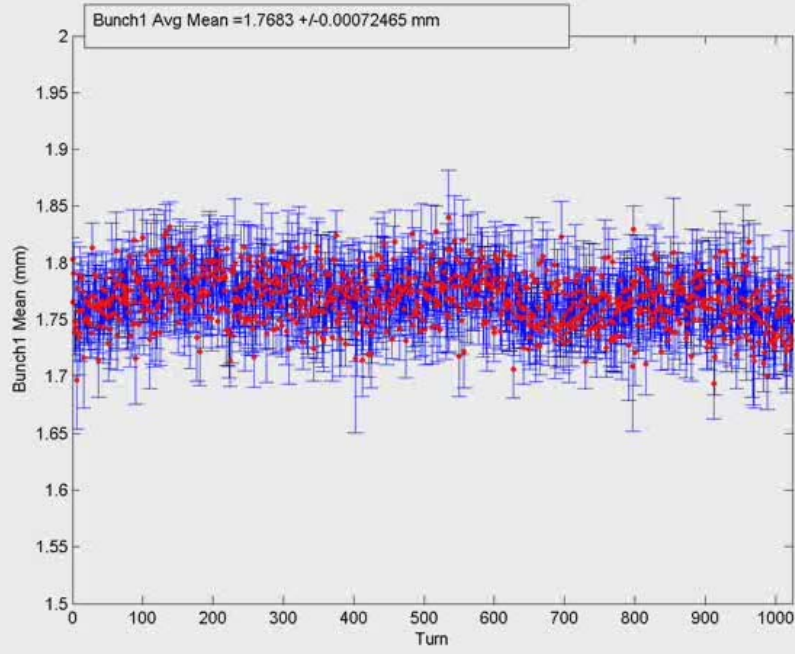
e- Horizontal Tune
10 bunches + witness bunches I=0.75mA/bunch



e- Vertical Tune
10 bunches + witness bunches I=0.75mA/bunch



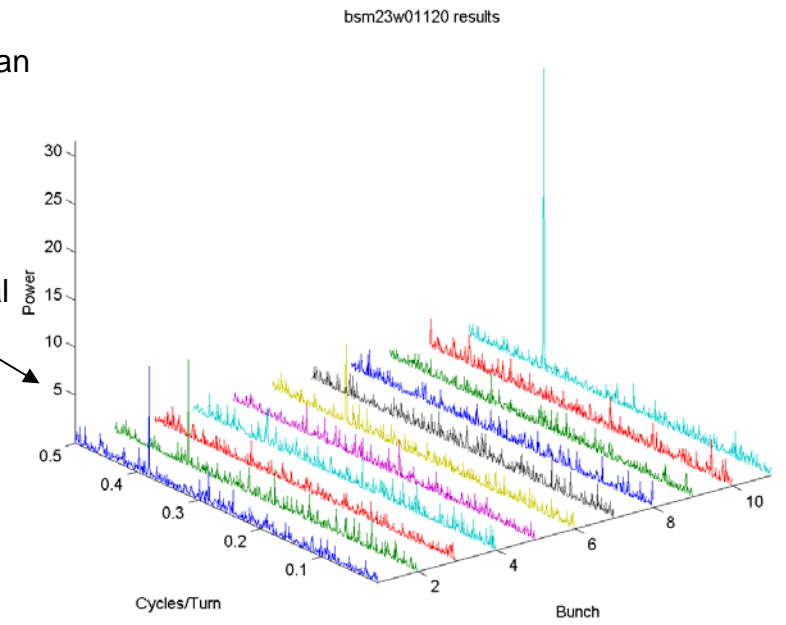




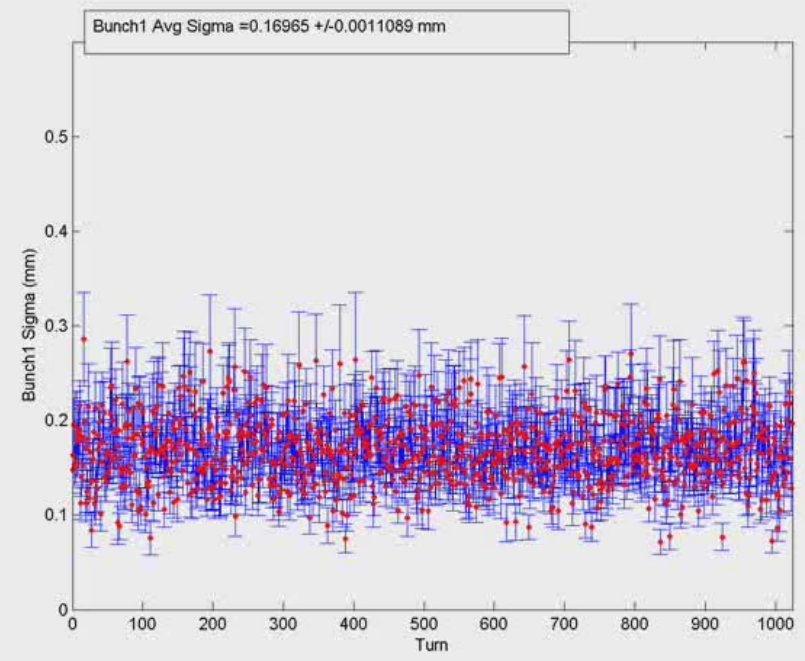
Vertical mean position (movie)



FFT Vertical position



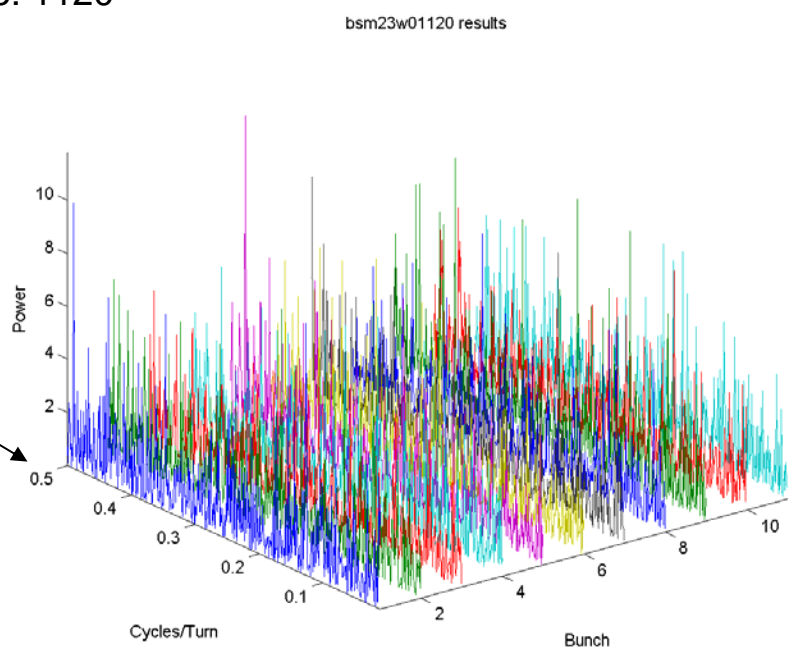
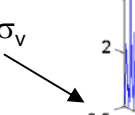
e- vertical dynamics
 Witness bunches 42
 File: 1120

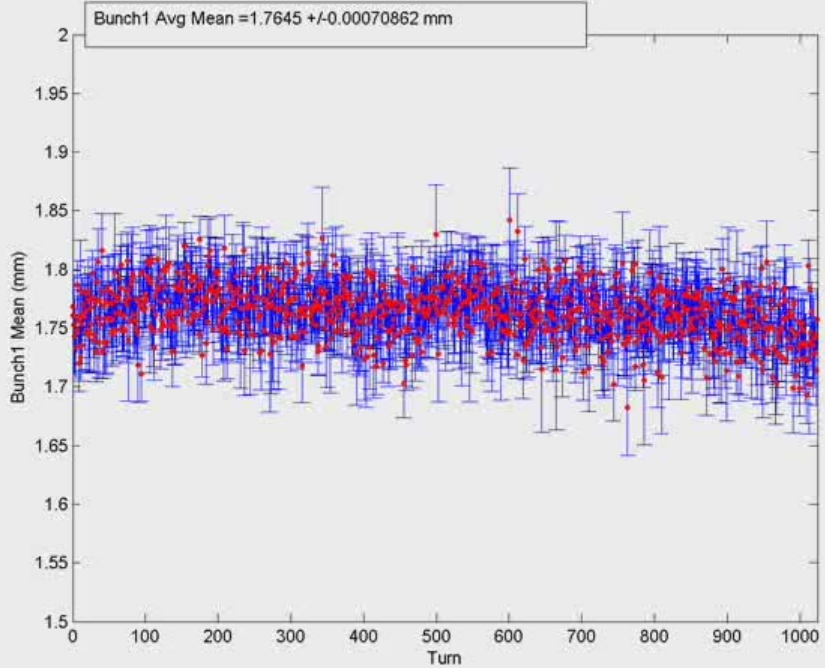


σ_v (movie)



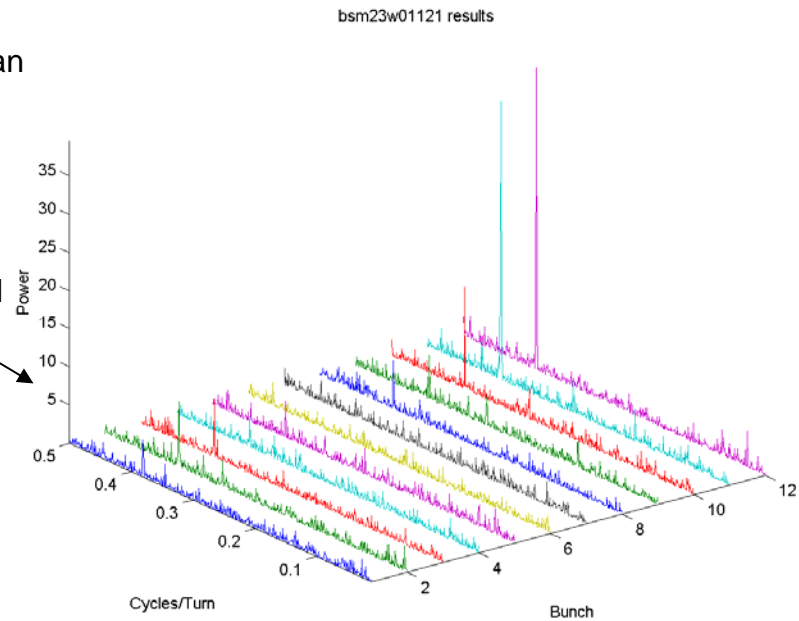
FFT σ_v



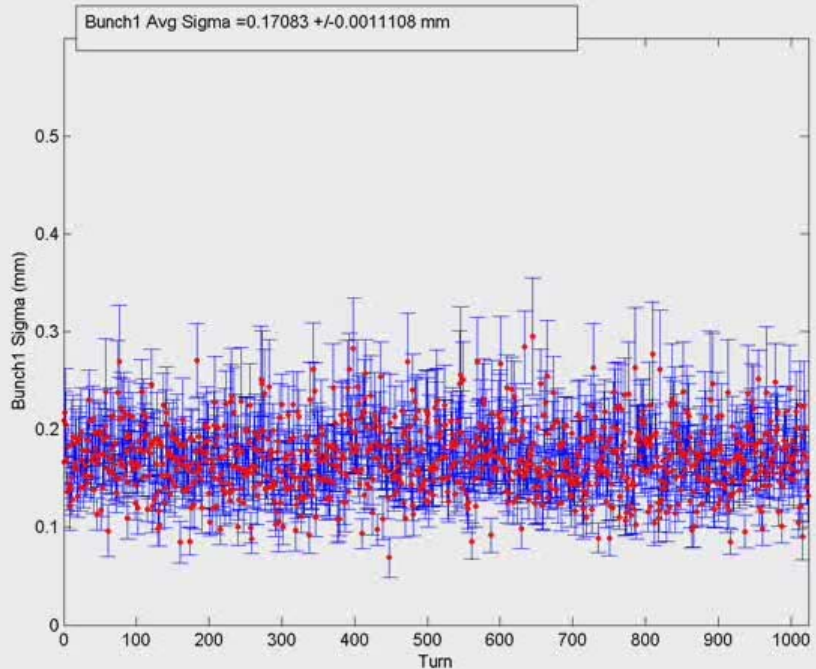


Vertical mean position (movie)

FFT Vertical position

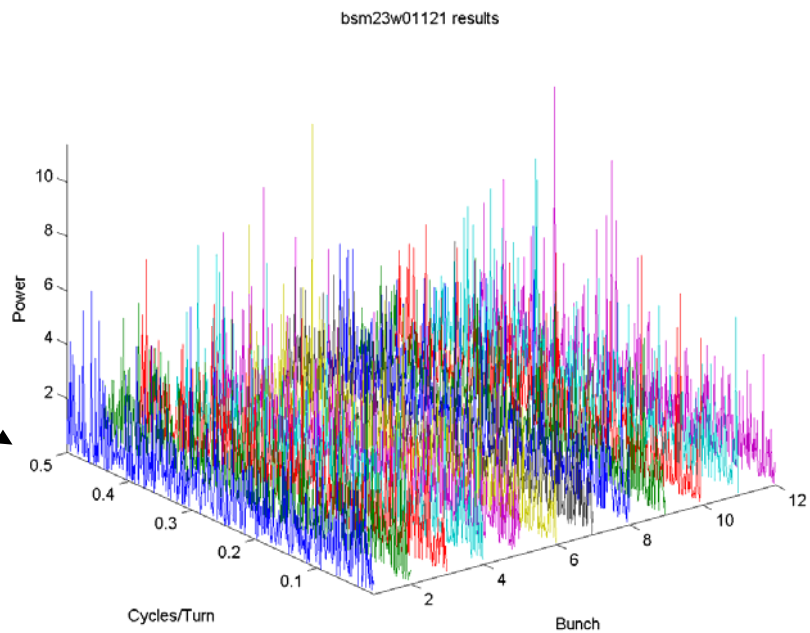


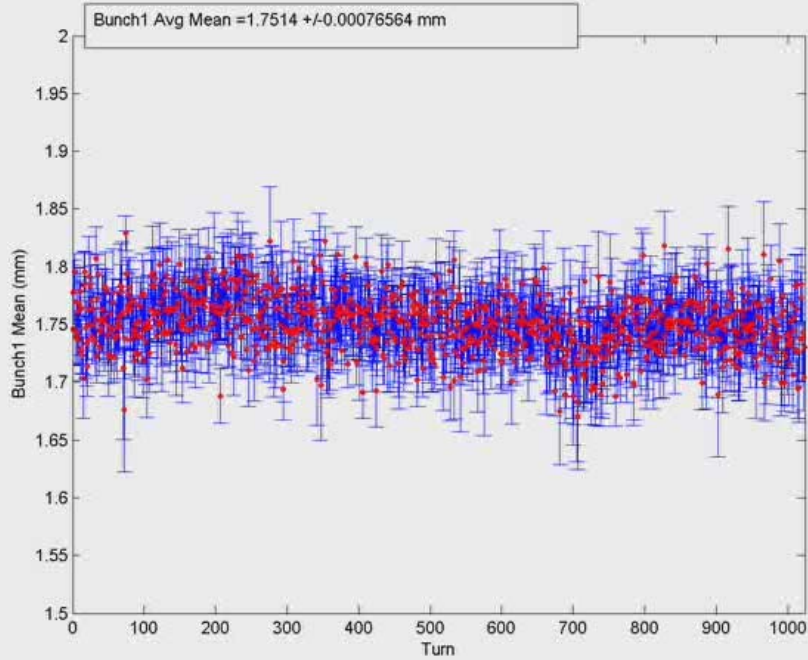
e- vertical dynamics
 Witness bunches 38,42
 File: 1121



σ_v (movie)

FFT σ_v

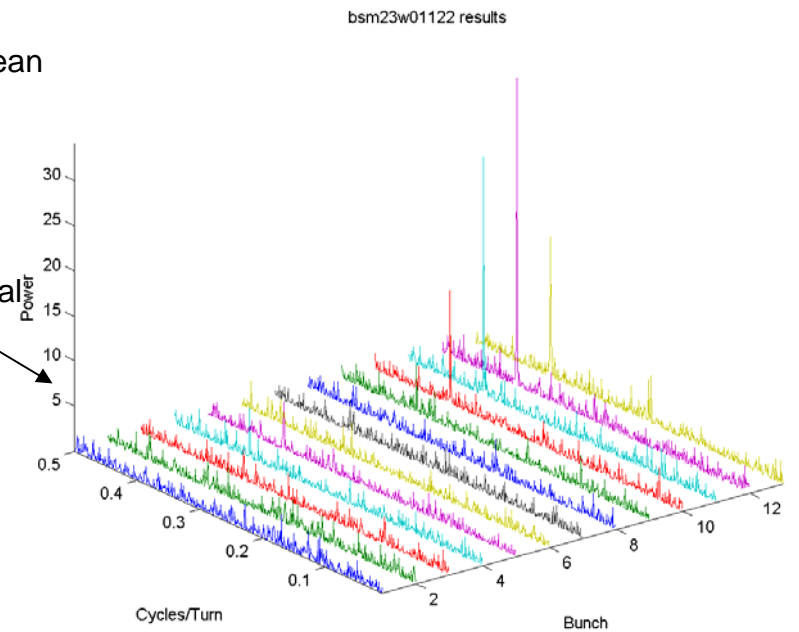




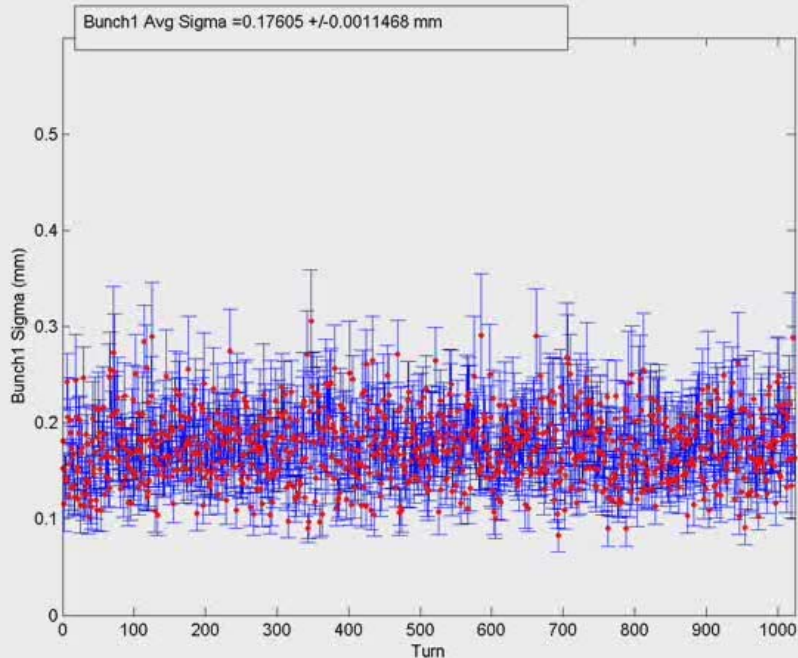
Vertical mean position (movie)



FFT Vertical position



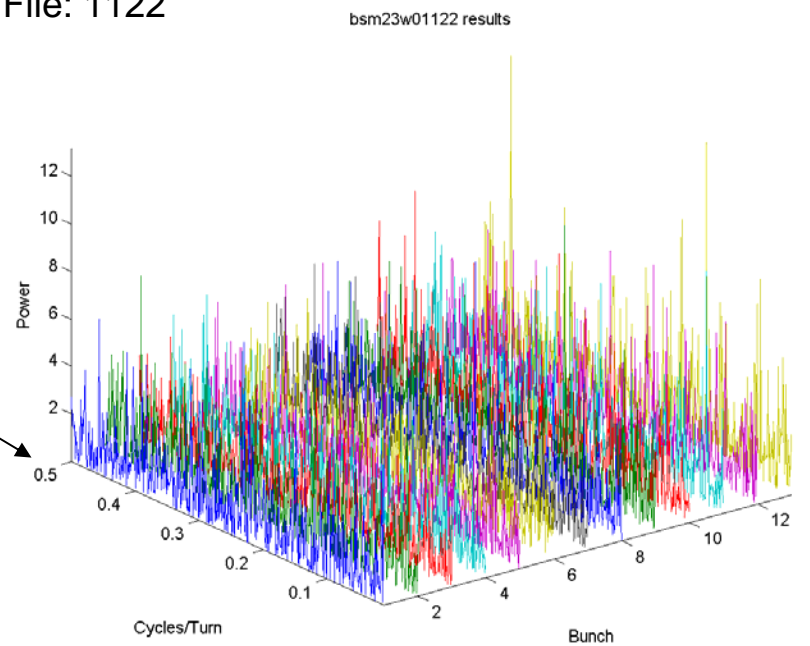
e- vertical dynamics
 Witness bunches 34,38,42
 File: 1122

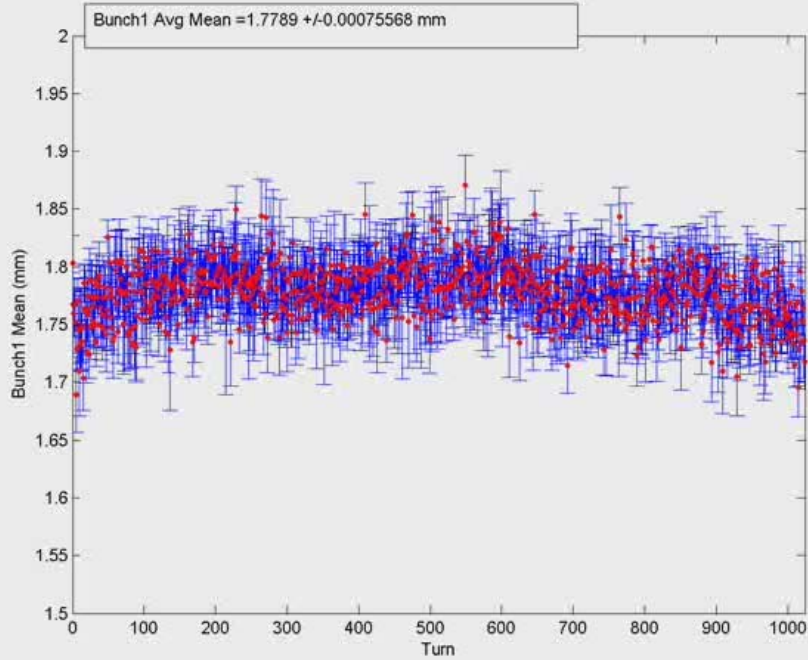


σ_v (movie)



FFT σ_v

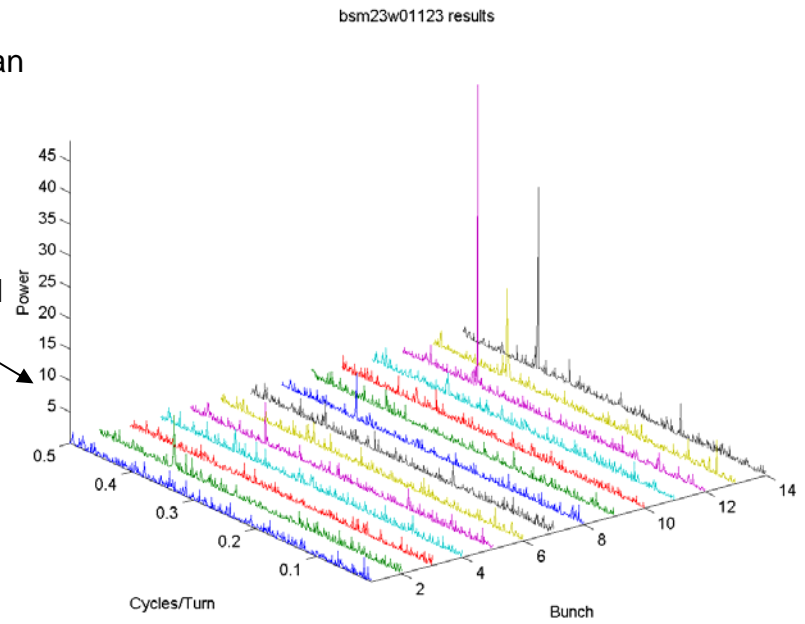




Vertical mean position (movie)



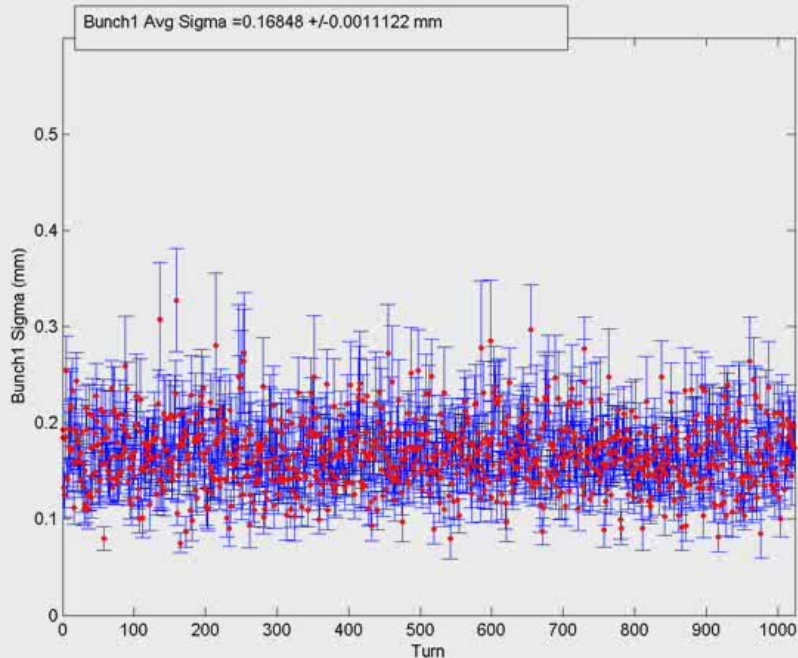
FFT Vertical position



e- vertical dynamics

Witness bunches 30,34,38,42

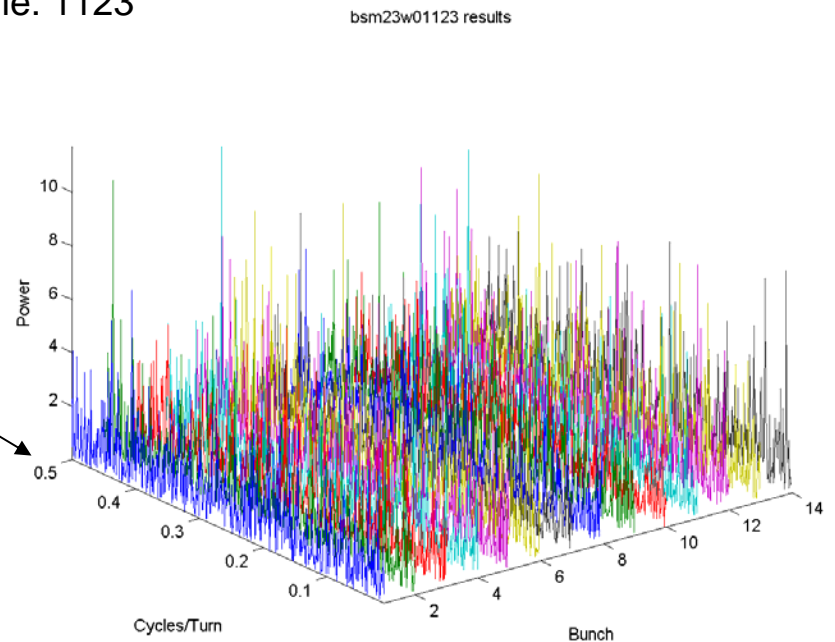
File: 1123

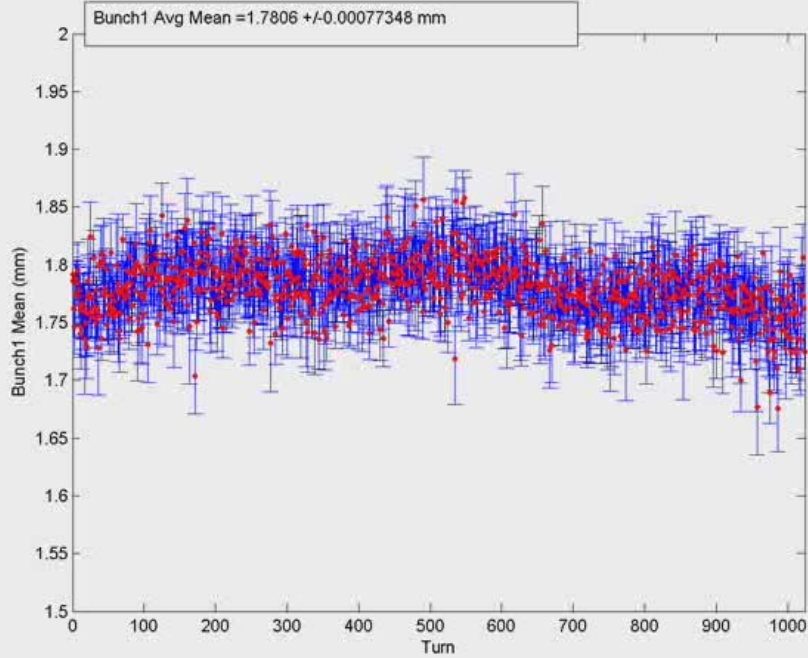


σ_v (movie)



FFT σ_v





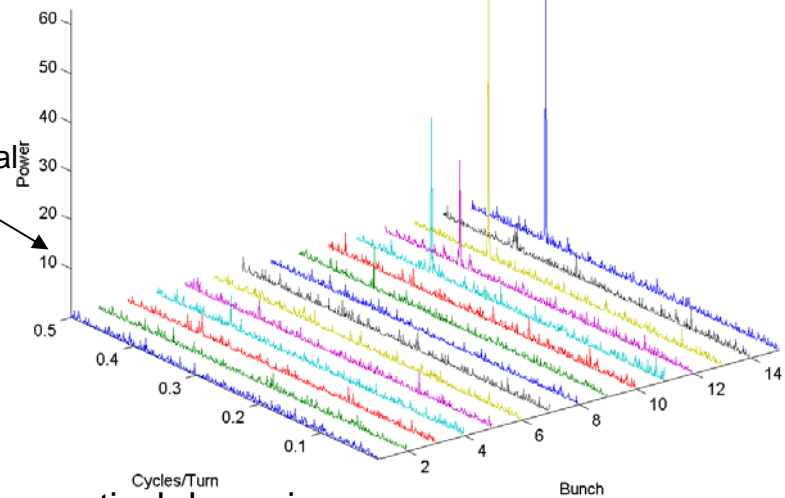
Vertical mean position (movie)



FFT Vertical position



bsm23w01124 results

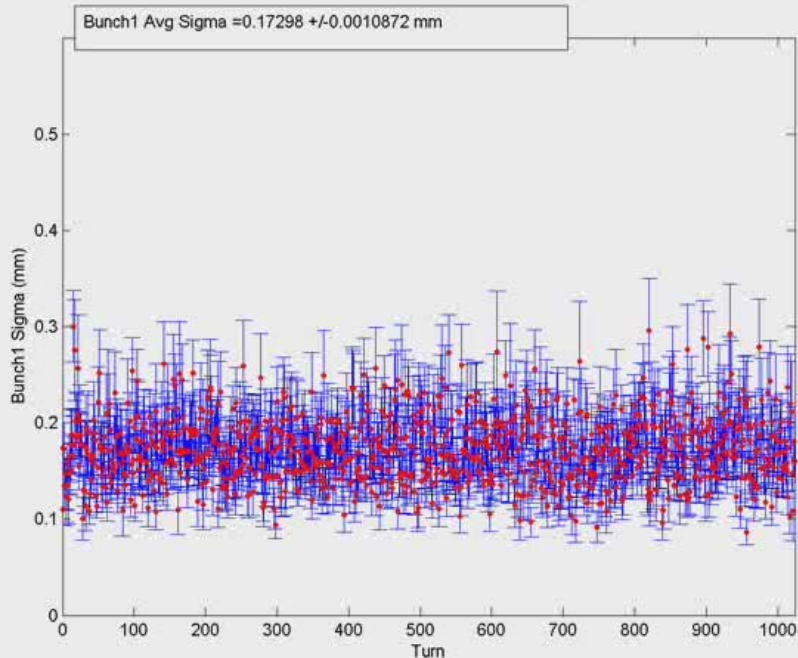


e- vertical dynamics

Witness bunches 26,30,34,38,42

File: 1124

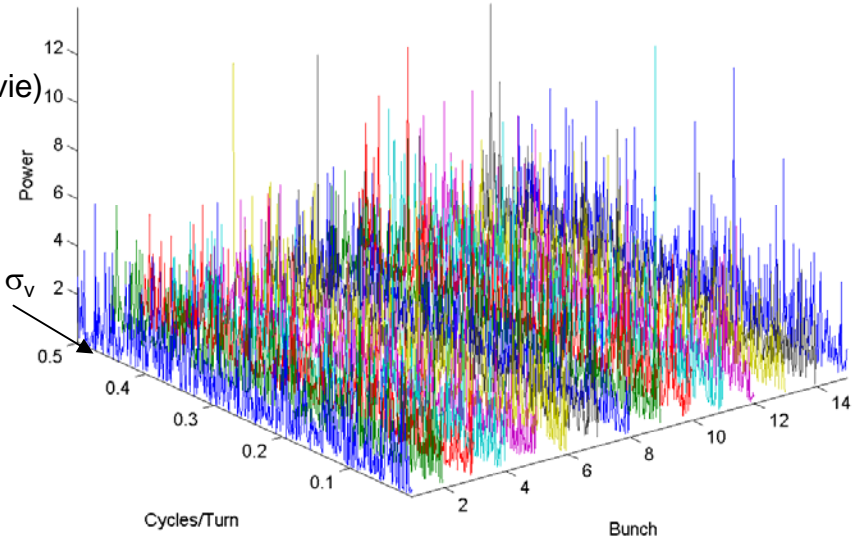
bsm23w01124 results

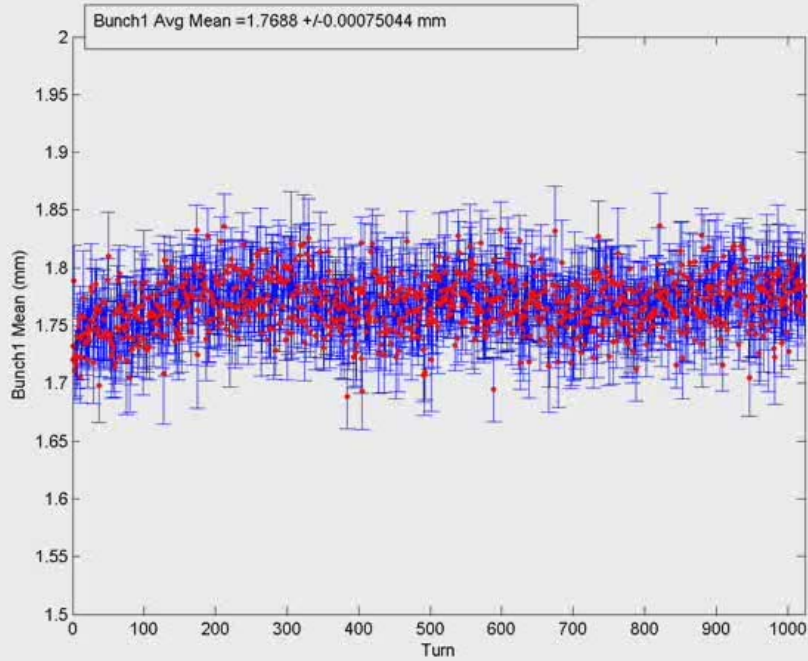


σ_v (movie)



FFT σ_v

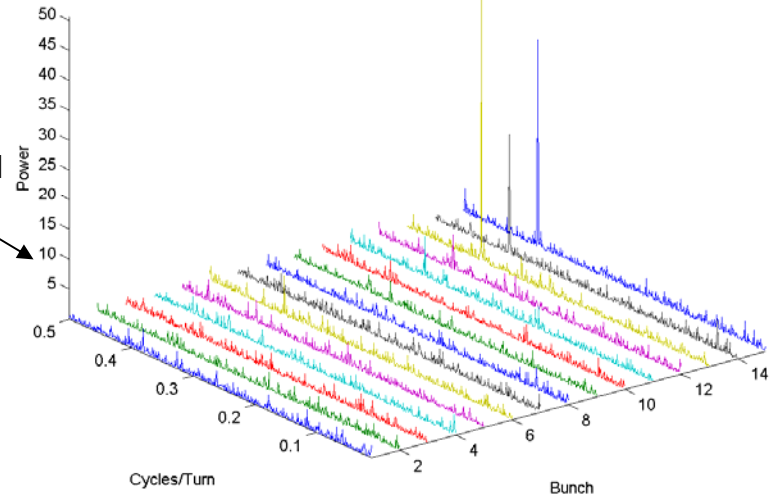
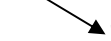




Vertical mean position (movie)



FFT Vertical position

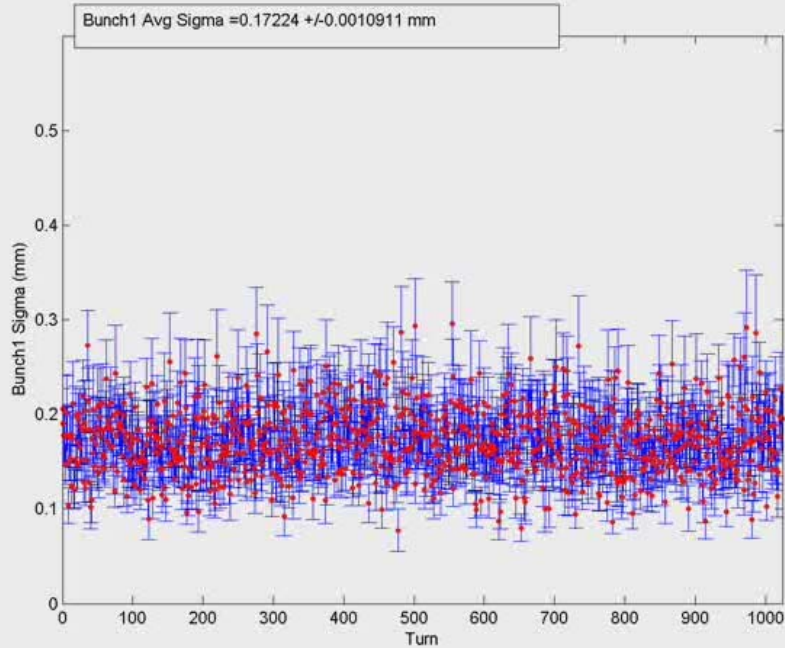


e- vertical dynamics

Witness bunches 22,26,30,34,38

File: 1125

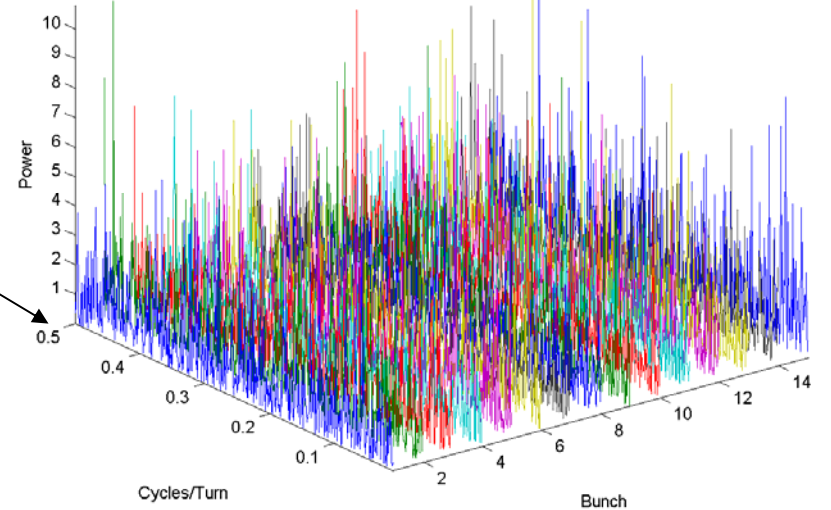
bsm23w01125 results

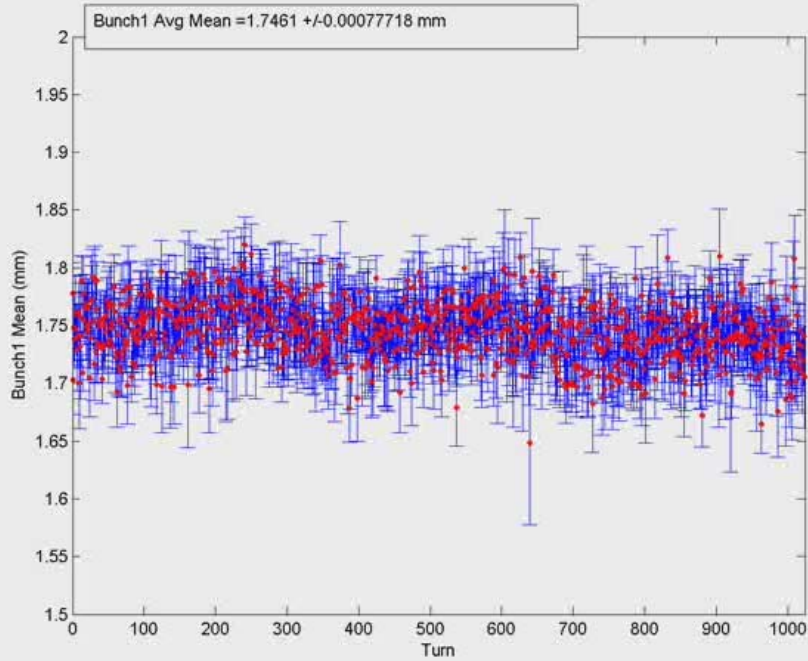


σ_v (movie)



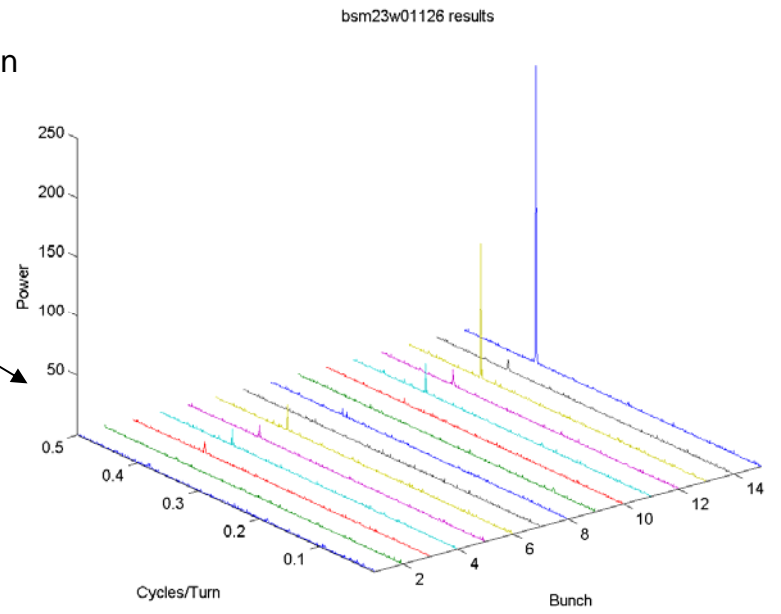
FFT σ_v





Vertical mean position (movie)

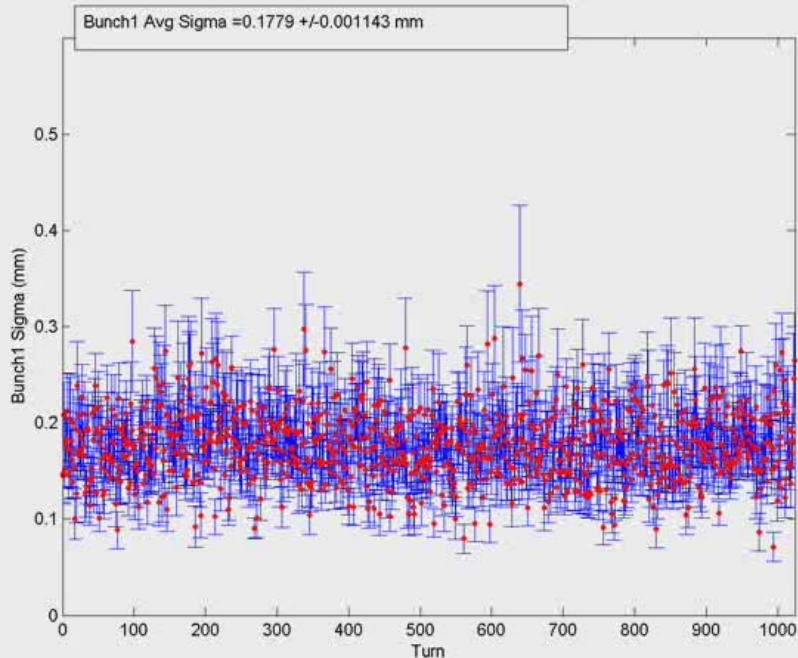
FFT Vertical position



e- vertical dynamics

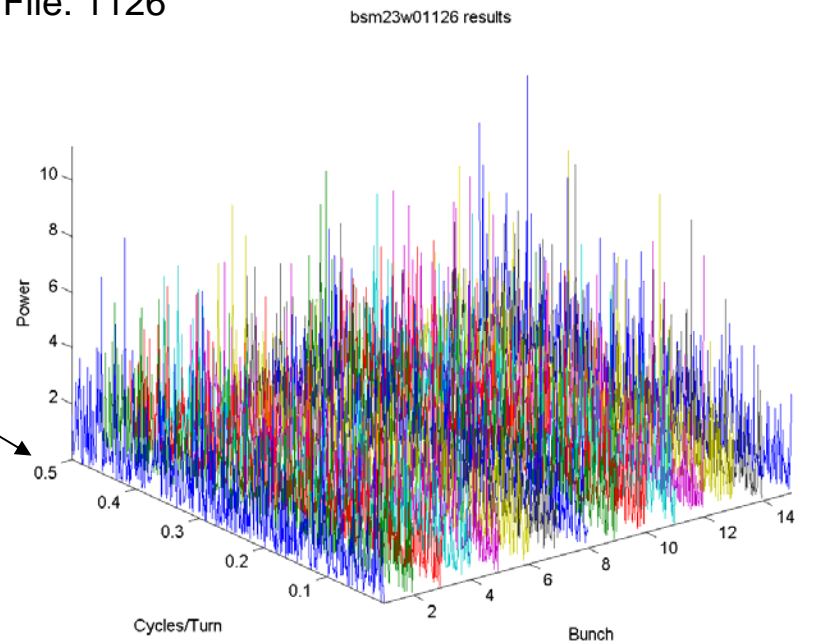
Witness bunches 20,22,26,30,34

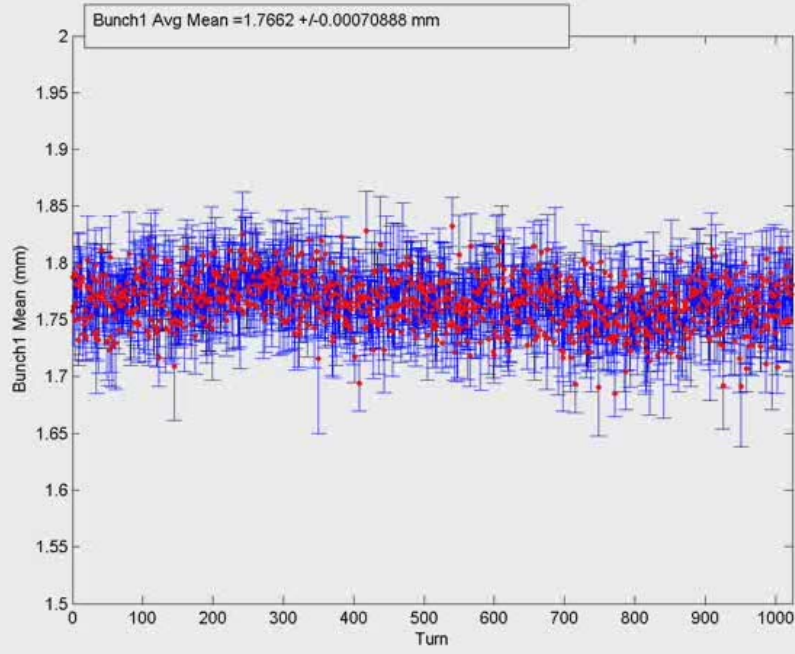
File: 1126



σ_v (movie)

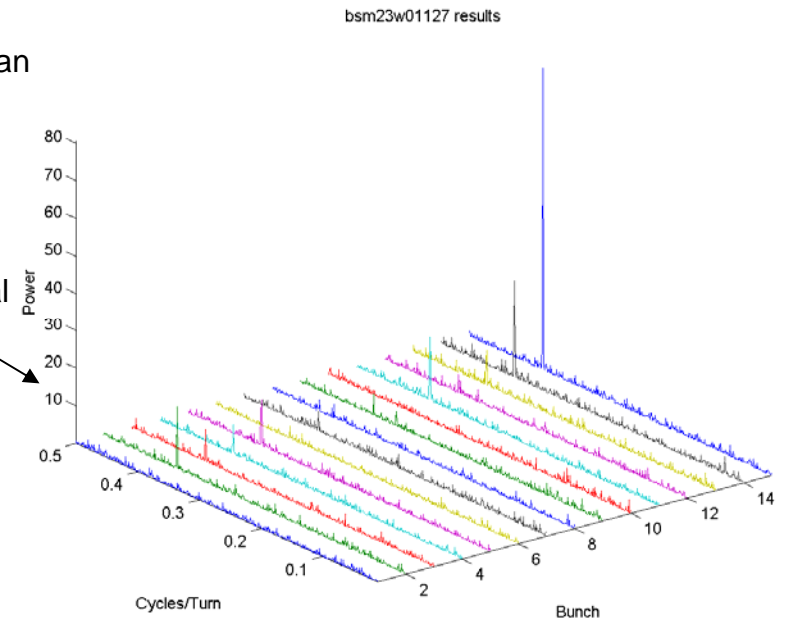
FFT σ_v



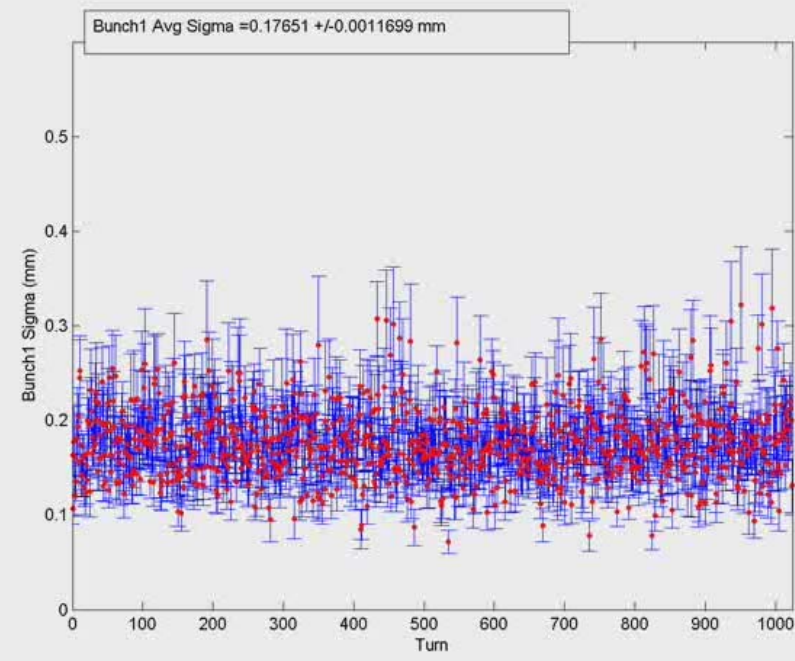


Vertical mean position (movie)

FFT Vertical position

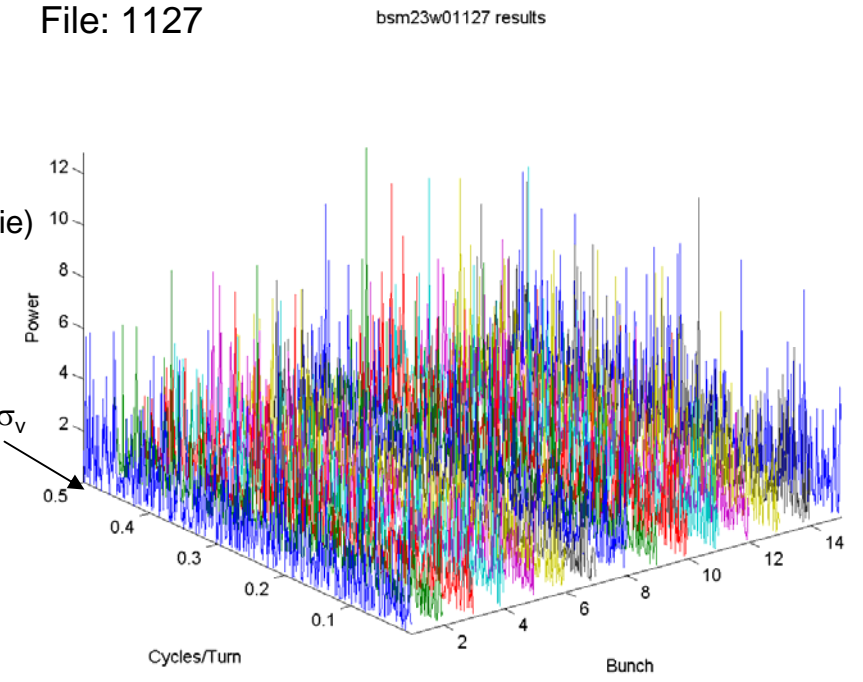


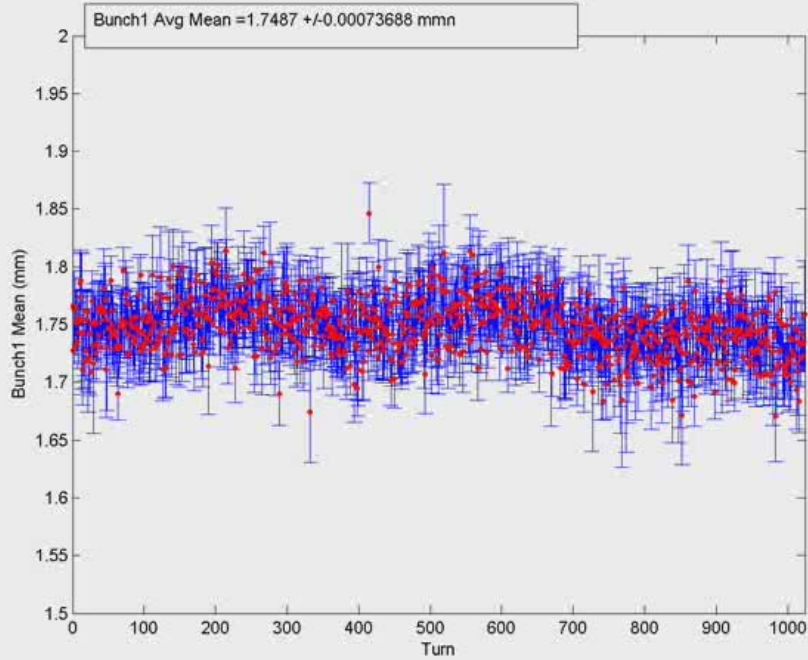
e- vertical dynamics
 Witness bunches 19,20,22,26,30
 File: 1127



σ_v (movie)

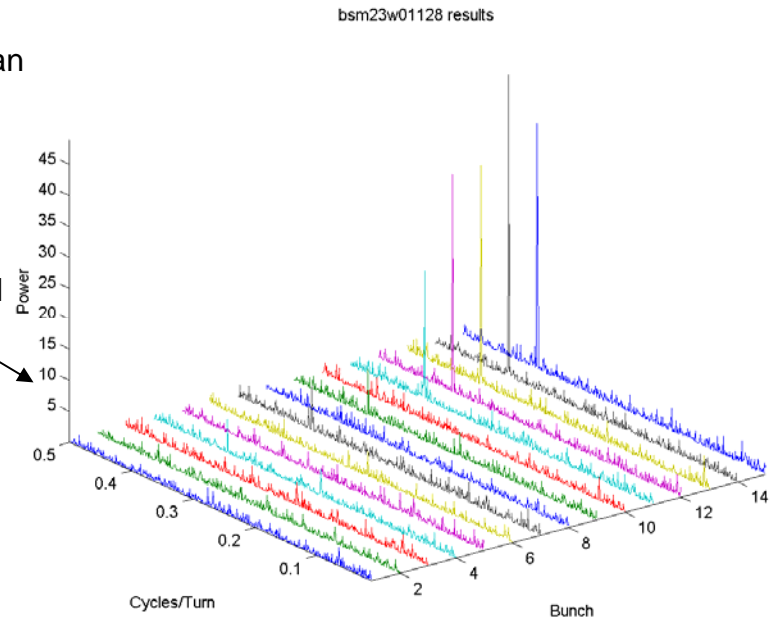
FFT σ_v





Vertical mean position (movie)

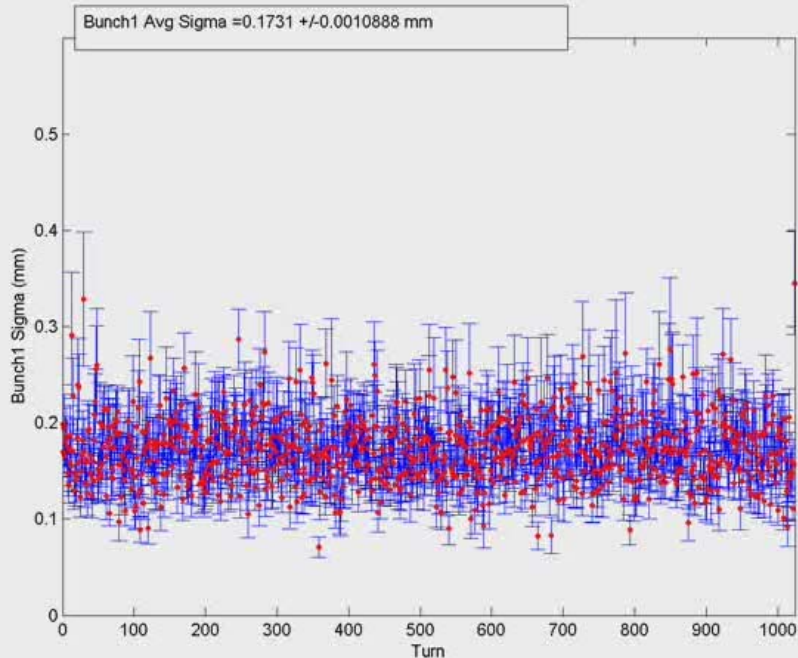
FFT Vertical position



e- vertical dynamics

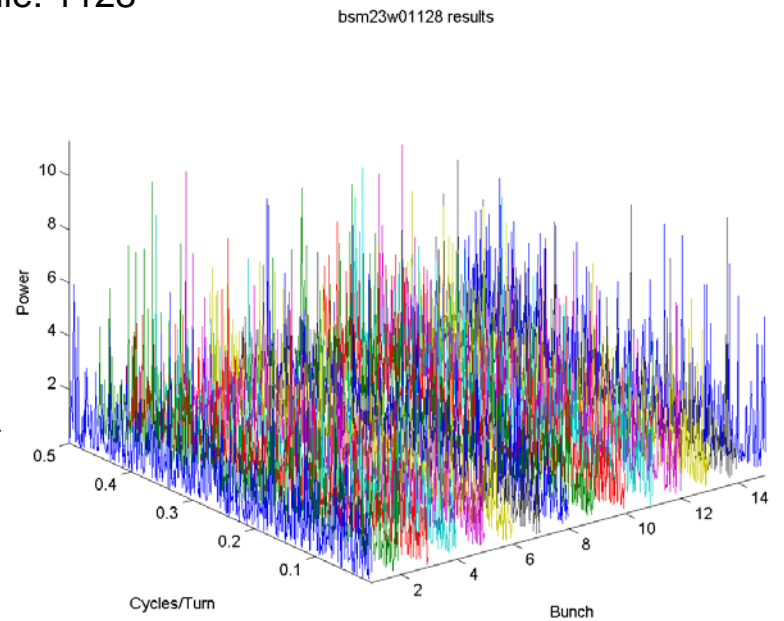
Witness bunches 18,19,20,22,26

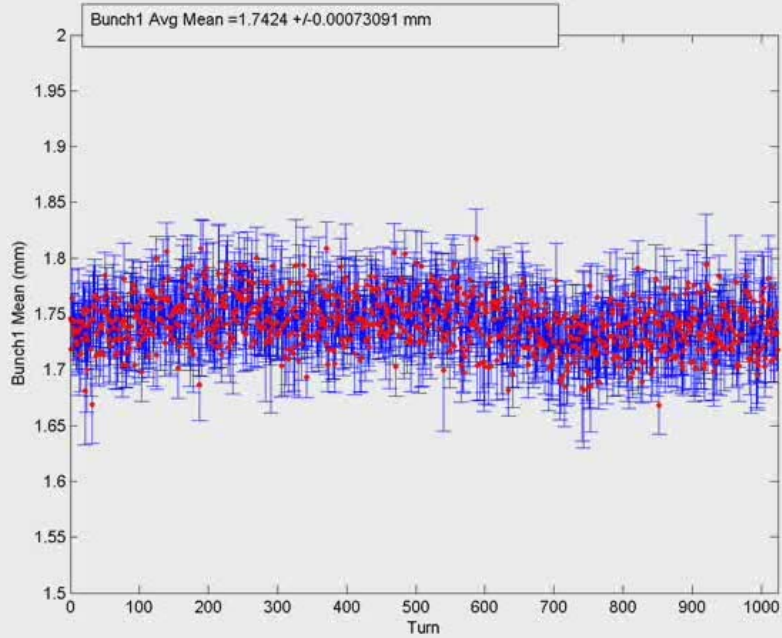
File: 1128



σ_v (movie)

FFT σ_v

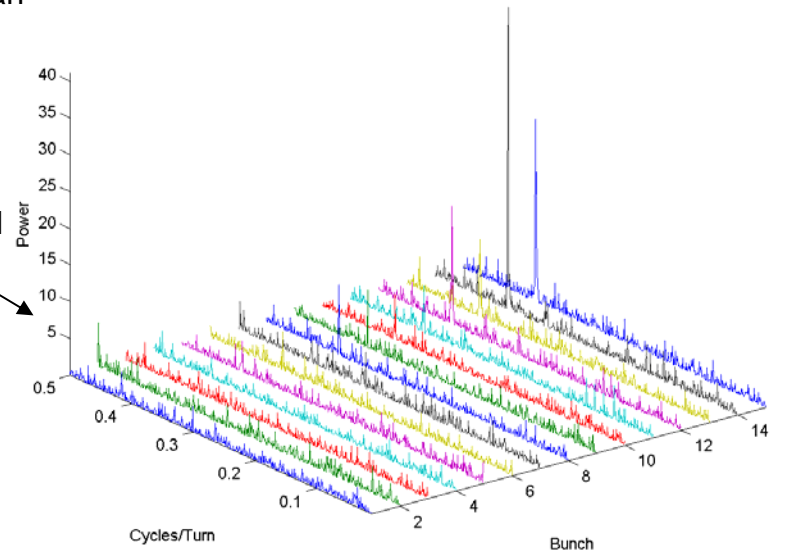




Vertical mean position (movie)



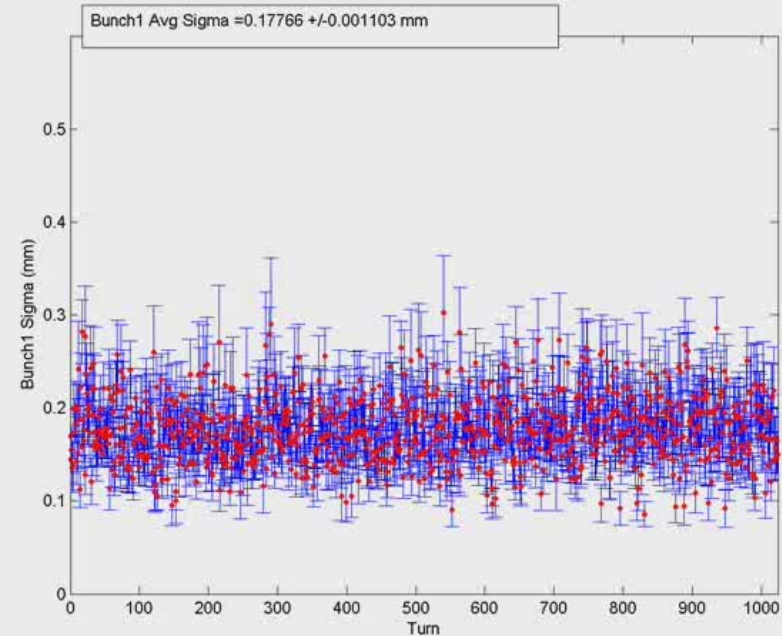
FFT Vertical position



e- vertical dynamics

Witness bunches 17,18,19,20,22

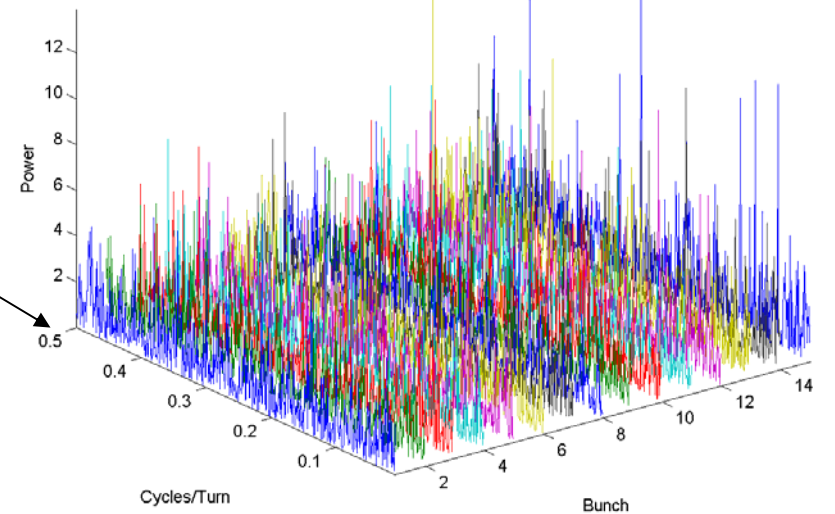
File: 1129

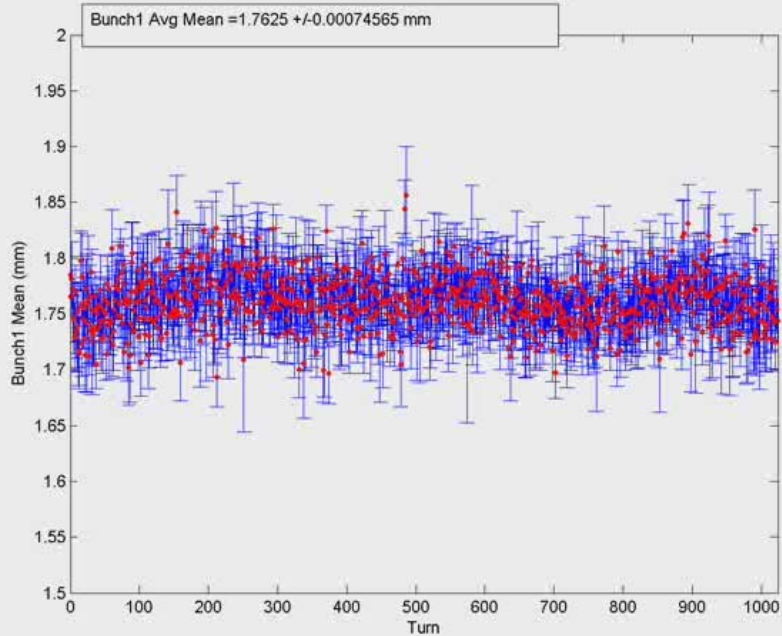


σ_v (movie)



FFT σ_v





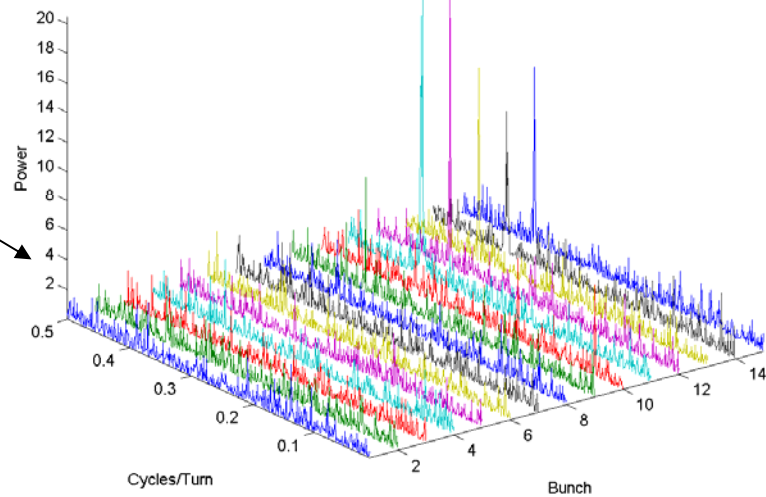
Vertical mean position (movie)



FFT Vertical position



bsm23w01130 results

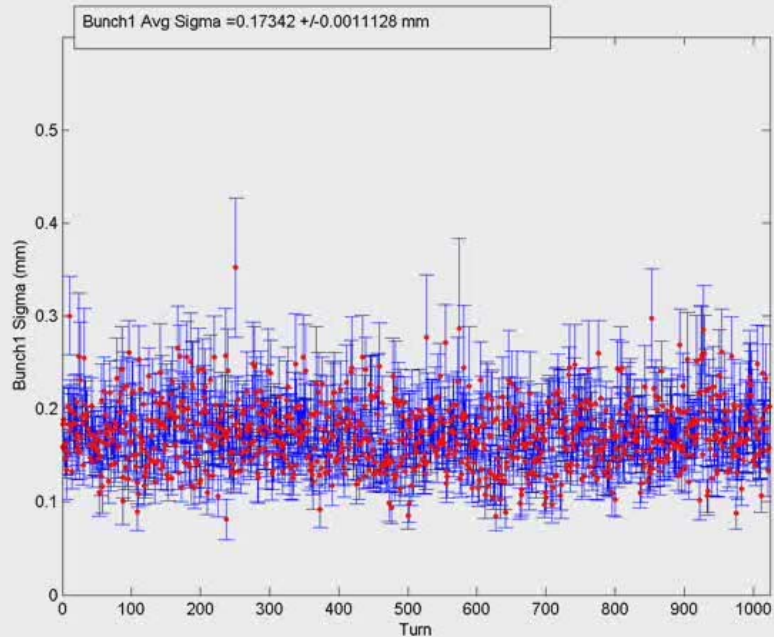


e- vertical dynamics

Witness bunches 16,17,18,19,20

File: 1130

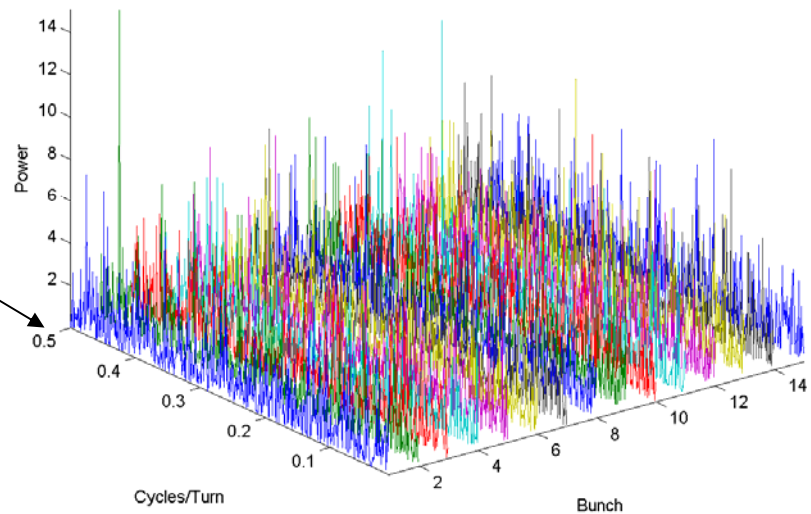
bsm23w01130 results

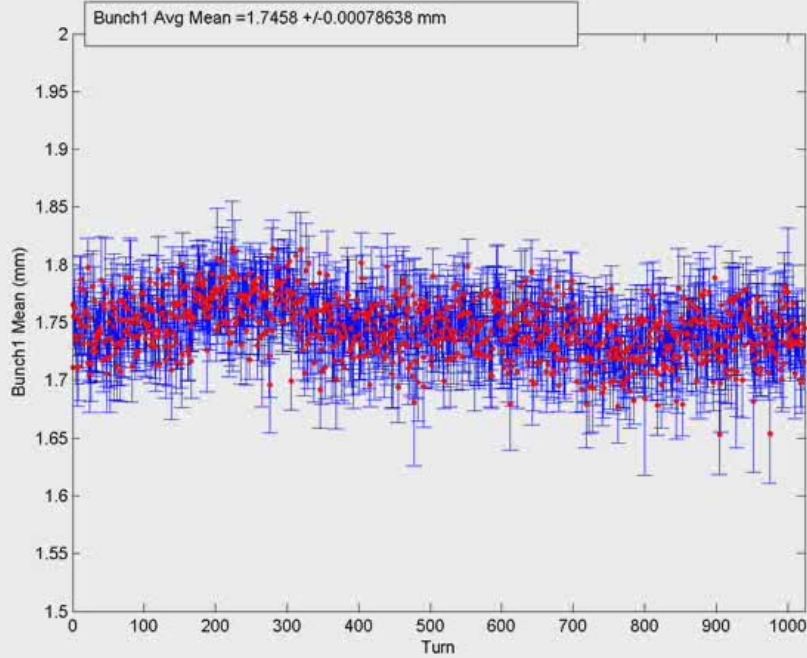


σ_v (movie)



FFT σ_v

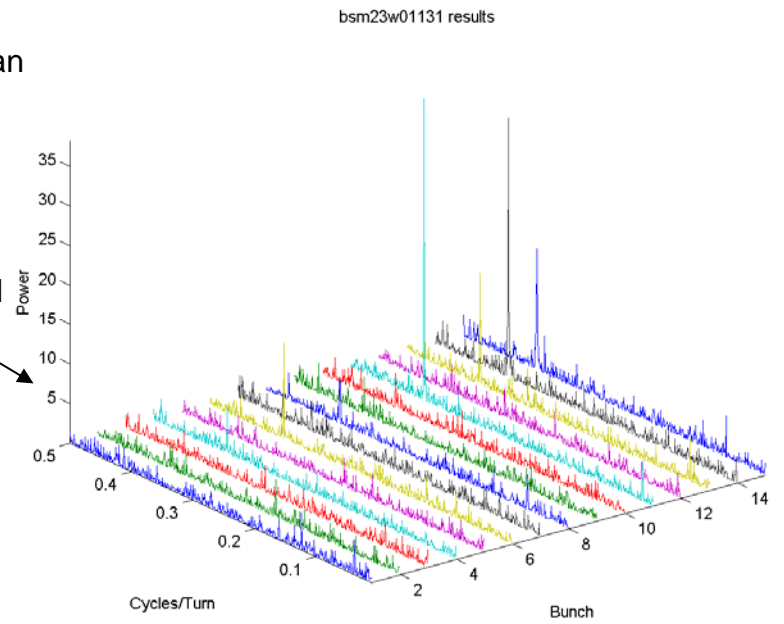




Vertical mean position (movie)



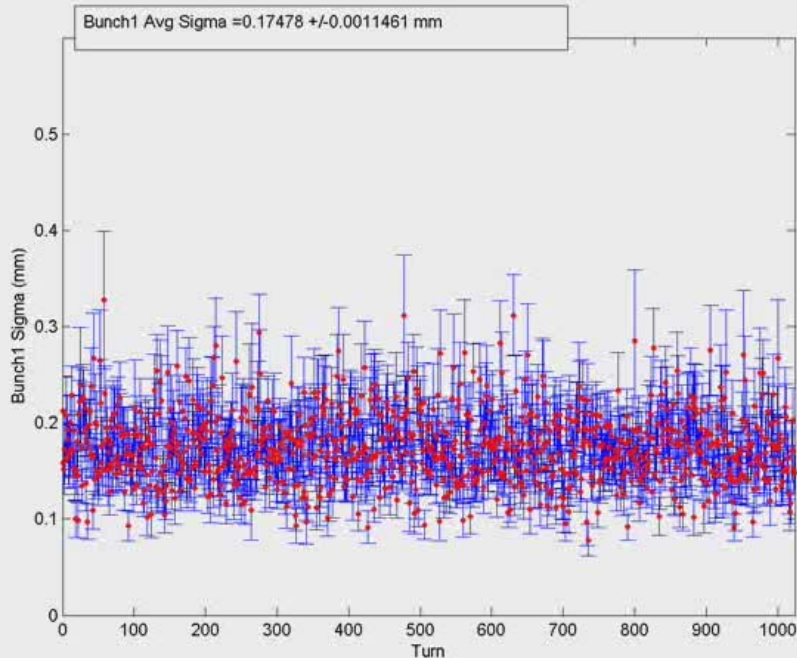
FFT Vertical position



e- vertical dynamics

Witness bunches 15,16,17,18,19

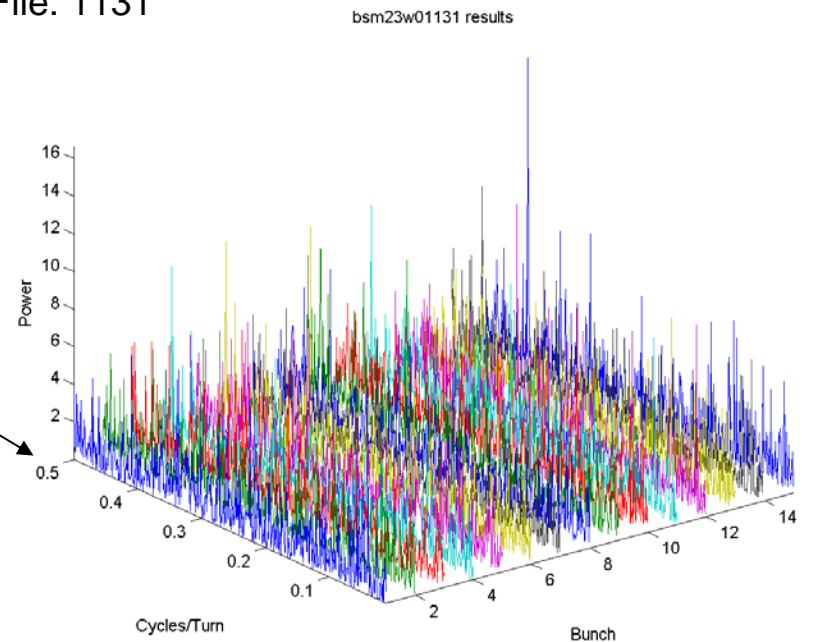
File: 1131

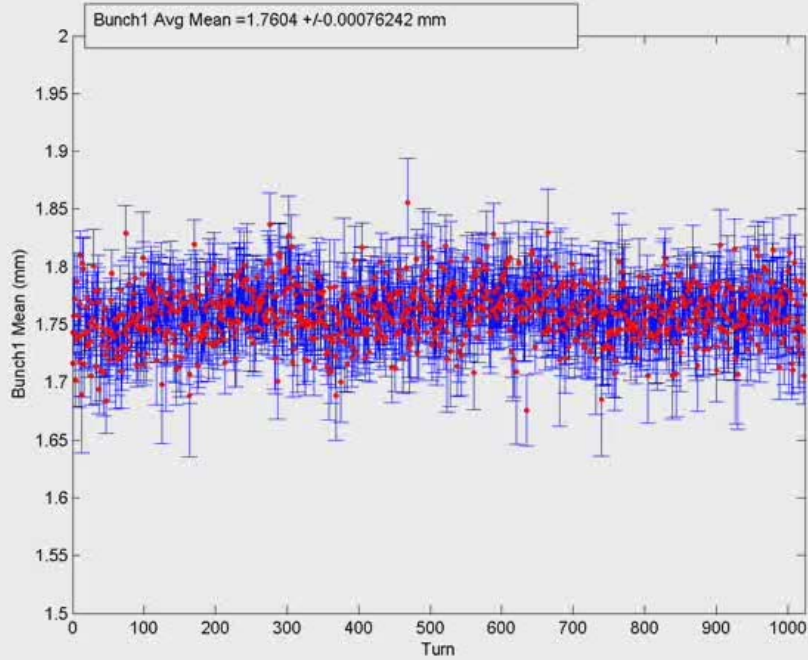


σ_v (movie)



FFT σ_v





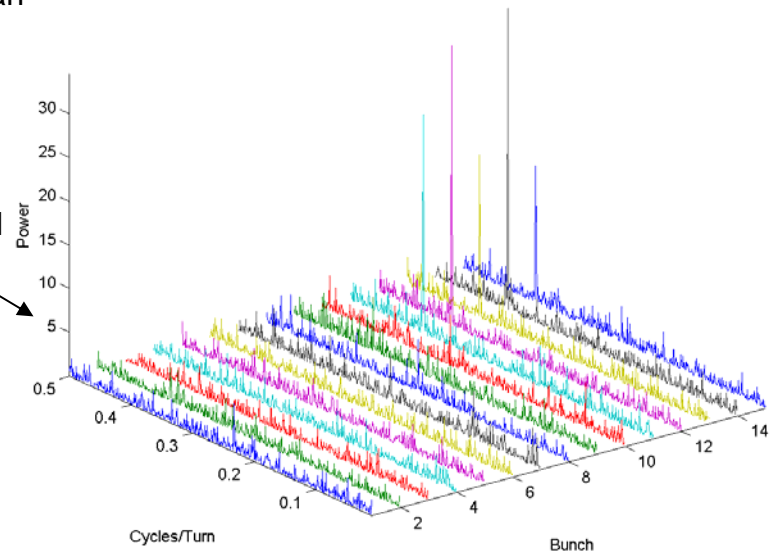
Vertical mean position (movie)



FFT Vertical position



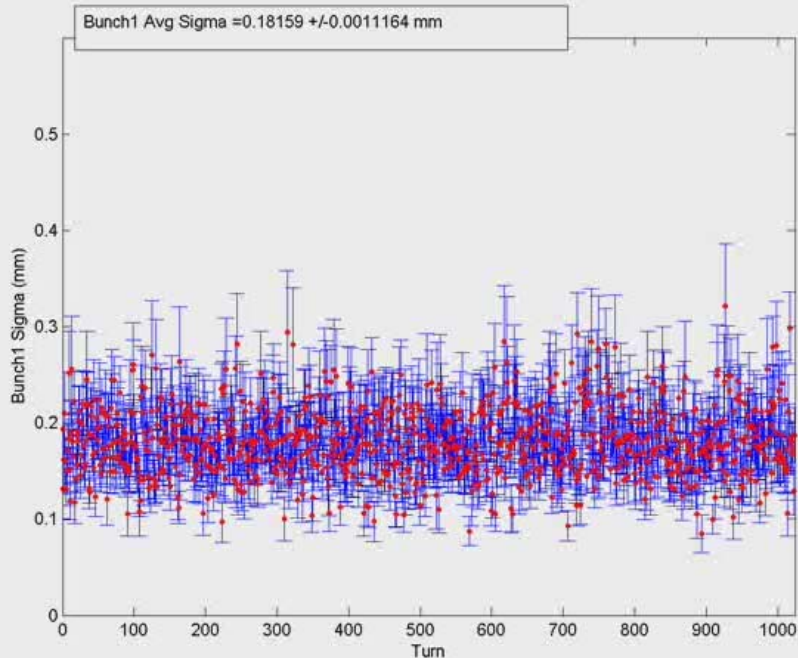
bsm23w01132 results



e- vertical dynamics

Witness bunches 14,15,16,17,18

File: 1132



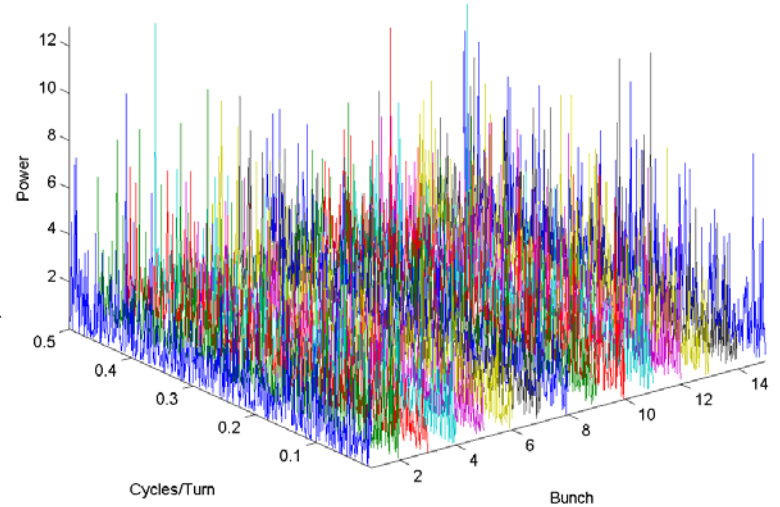
σ_v (movie)

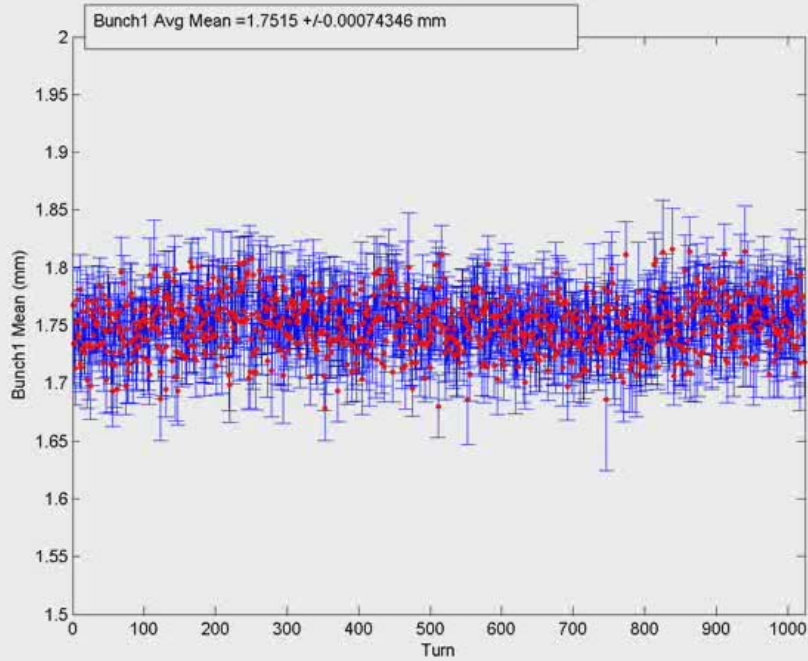


FFT σ_v



bsm23w01132 results

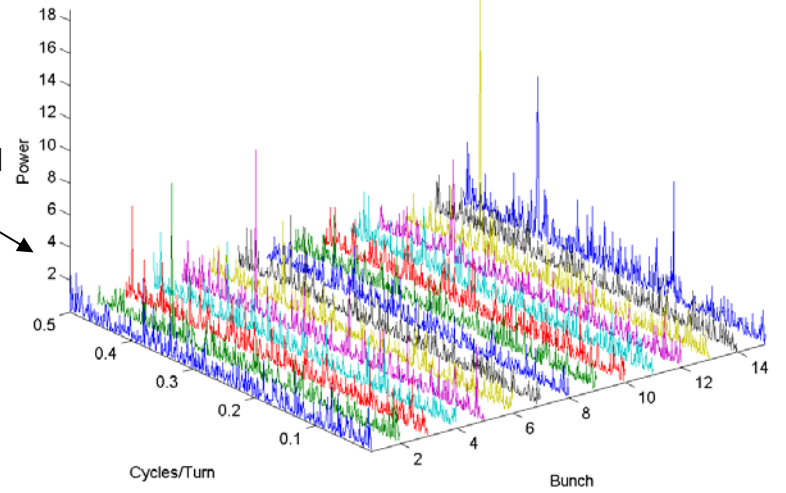




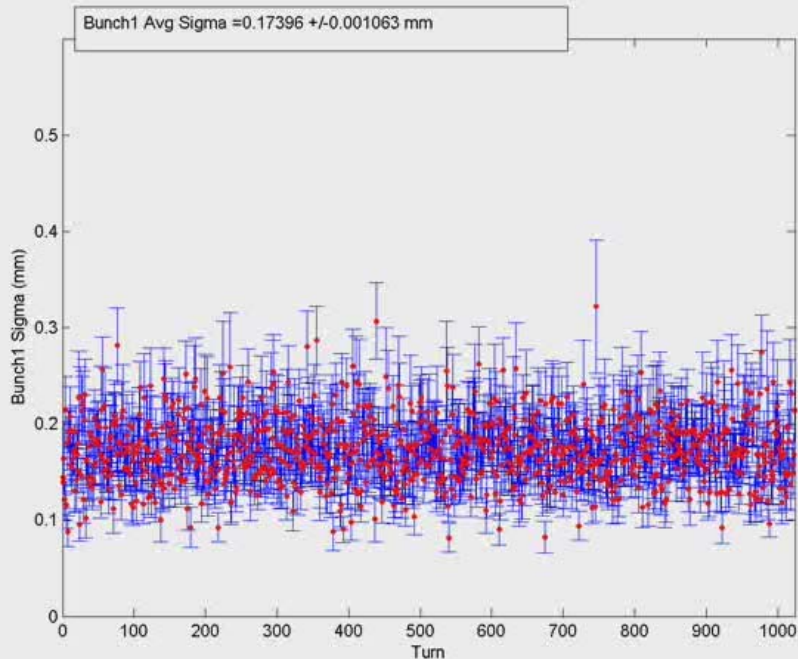
Vertical mean position (movie)



FFT Vertical position



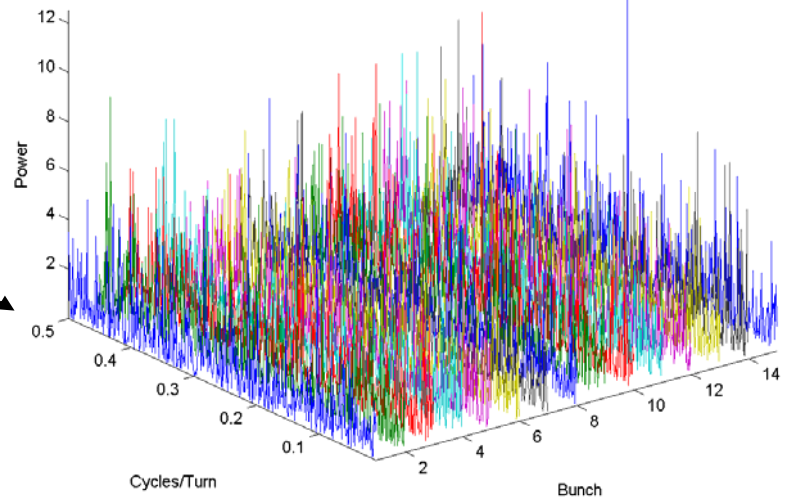
e- vertical dynamics
 Witness bunches 13,14,15,16,17
 File: 1133

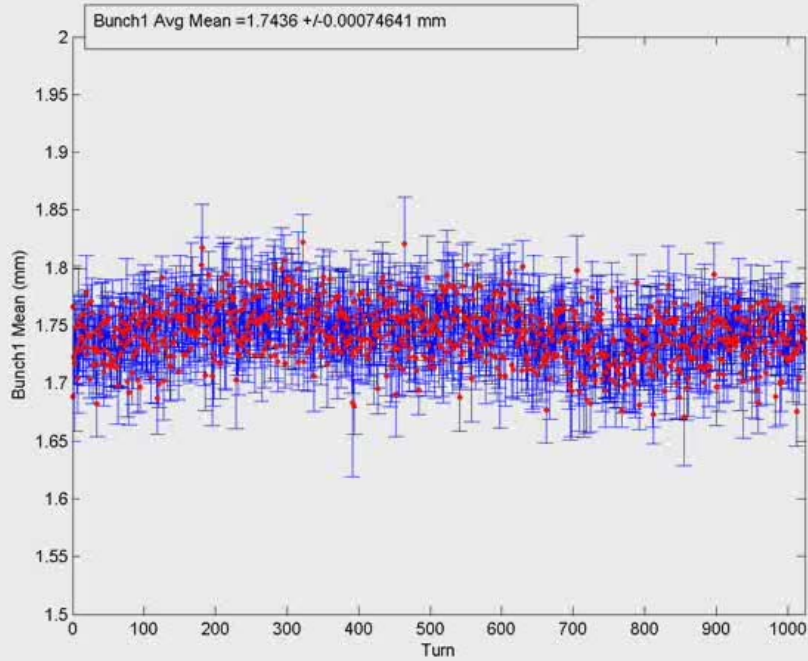


σ_v (movie)



FFT σ_v





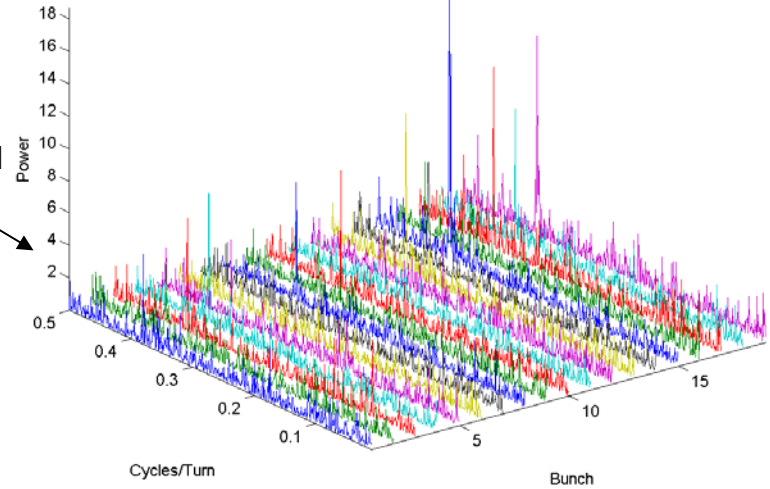
Vertical mean position (movie)



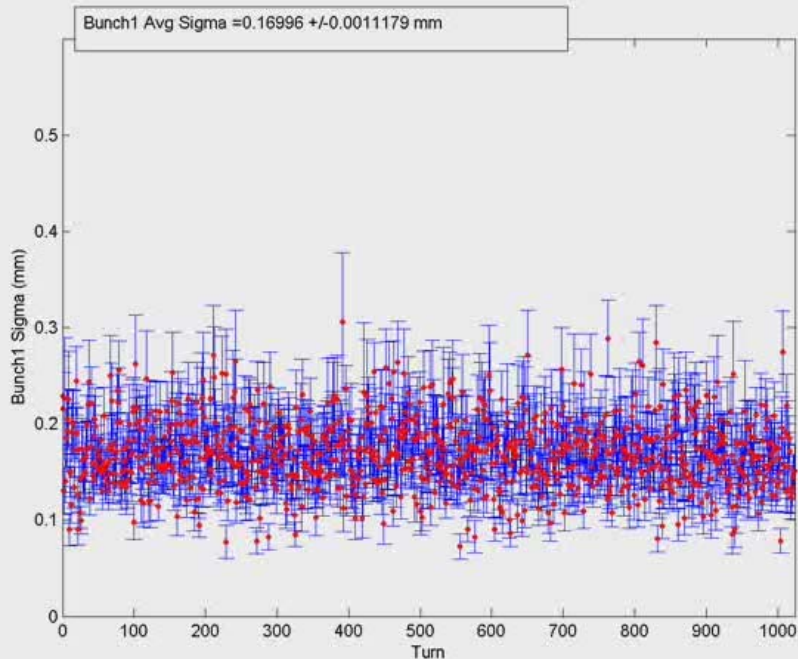
FFT Vertical position



bsm23w01134 results



e- vertical dynamics
 Witness bunches 12-20
 File: 1134



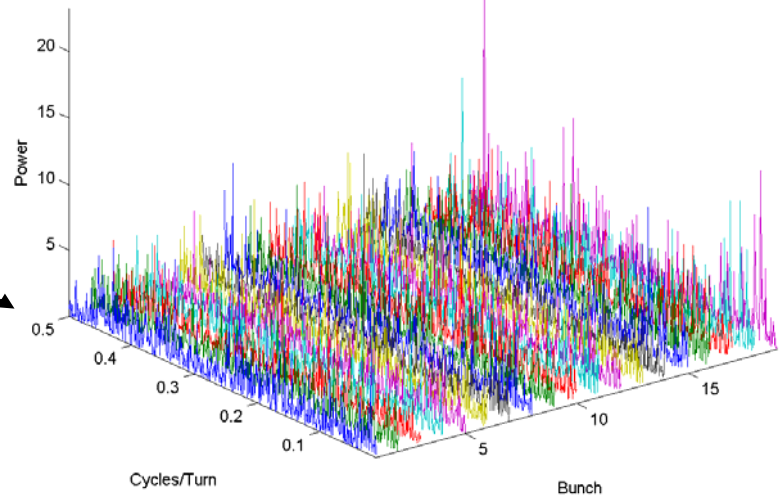
σ_v (movie)

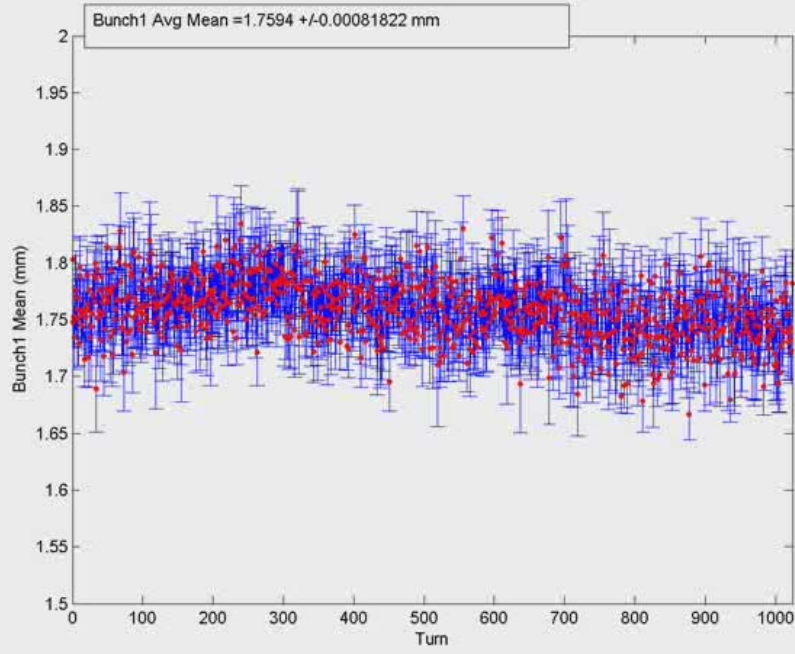


FFT σ_v



bsm23w01134 results

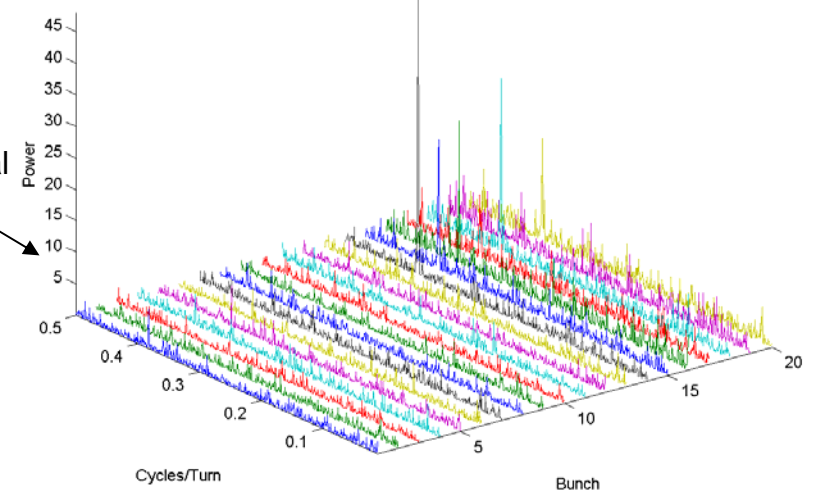




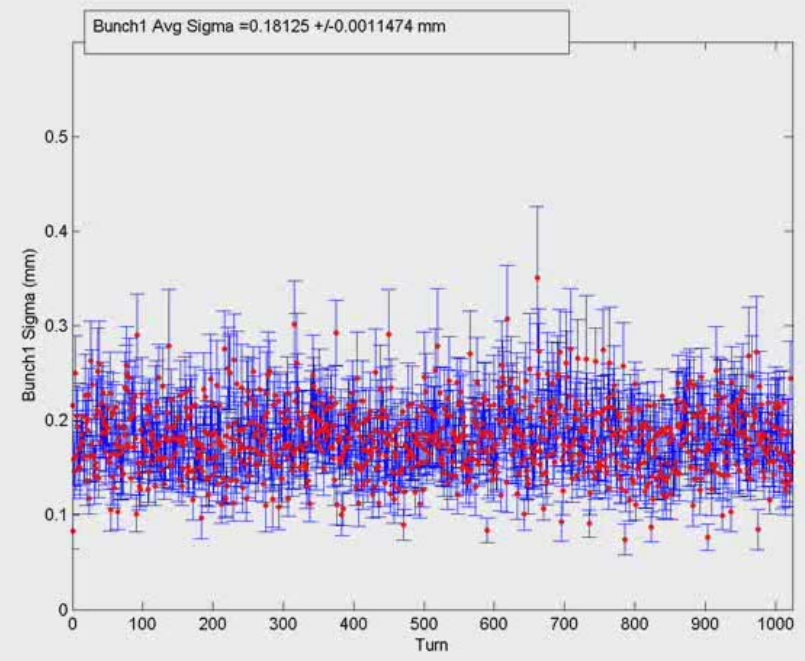
Vertical mean position (movie)

FFT Vertical position

bsm23w01135 results



e- vertical dynamics
20 Bunches
File: 1135



σ_v (movie)

FFT σ_v

bsm23w01135 results

