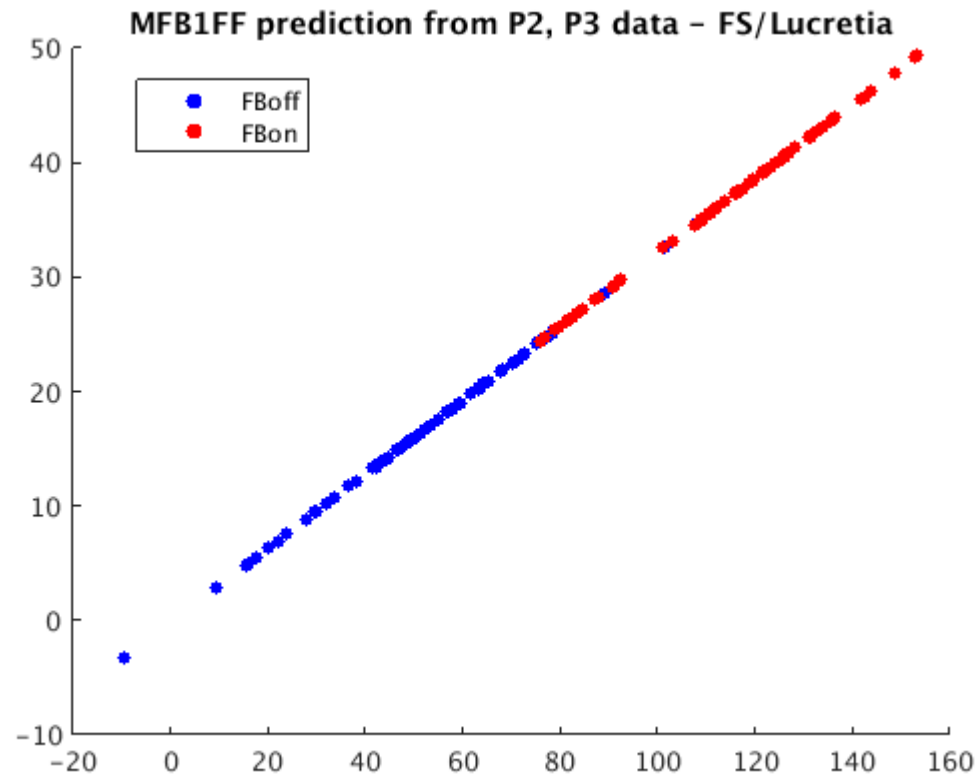


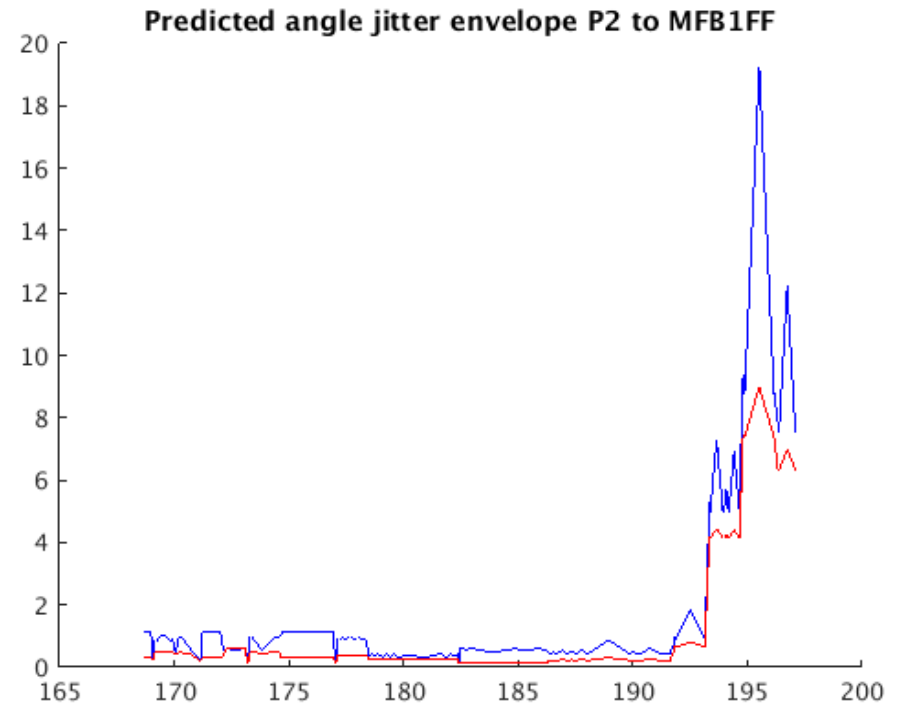
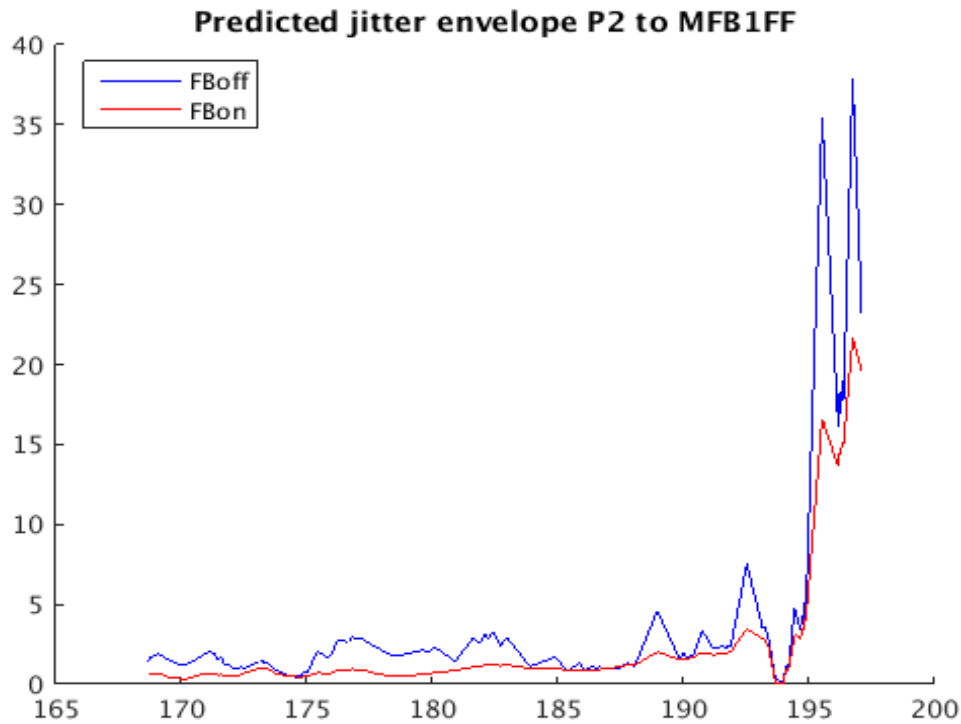
# Further MFB1FF studies

Glenn Christian  
UPDATED: 11/02/16

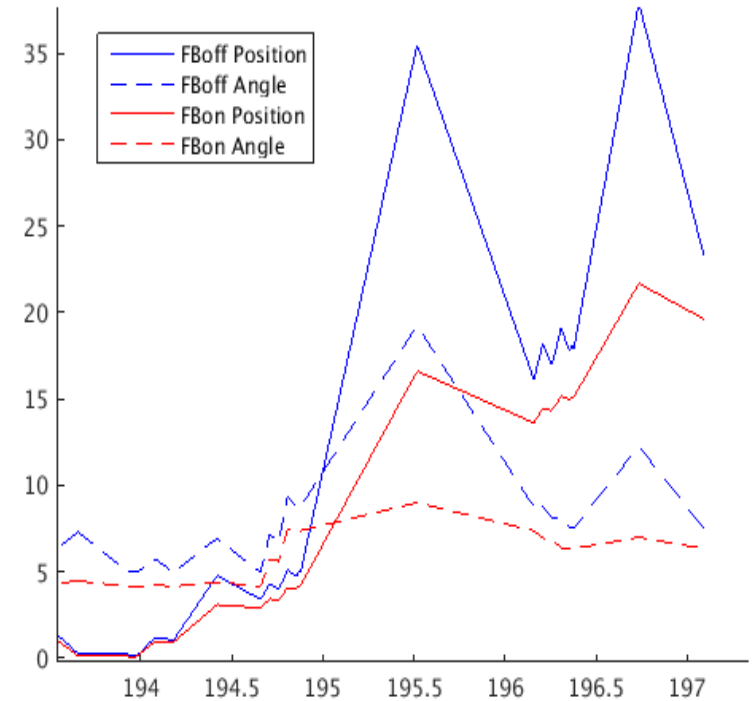
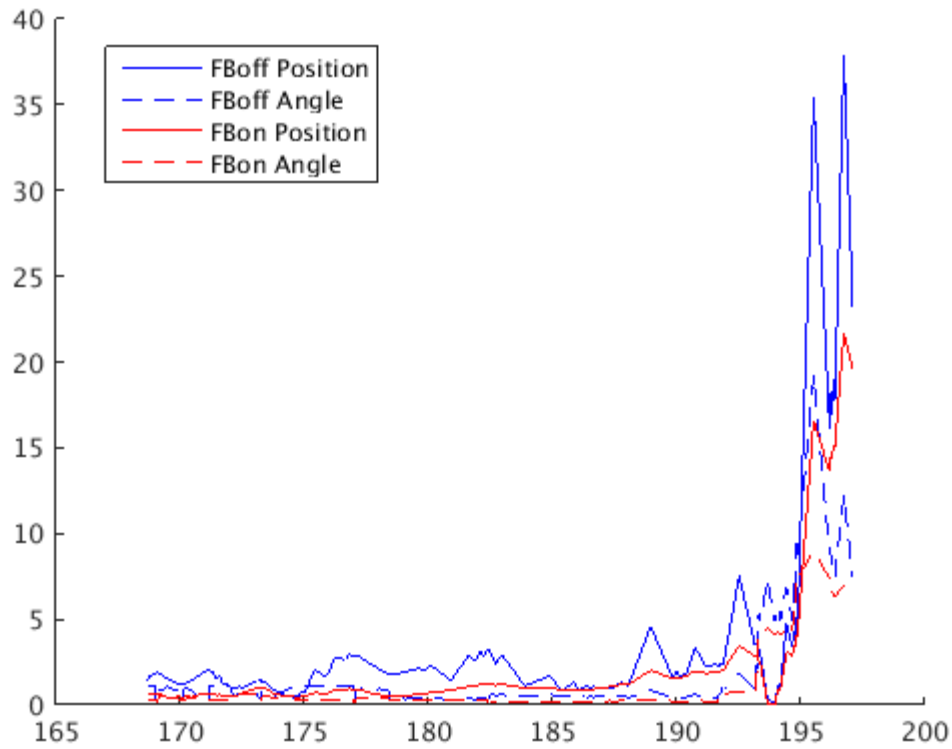
# 16/12/2015 dataset



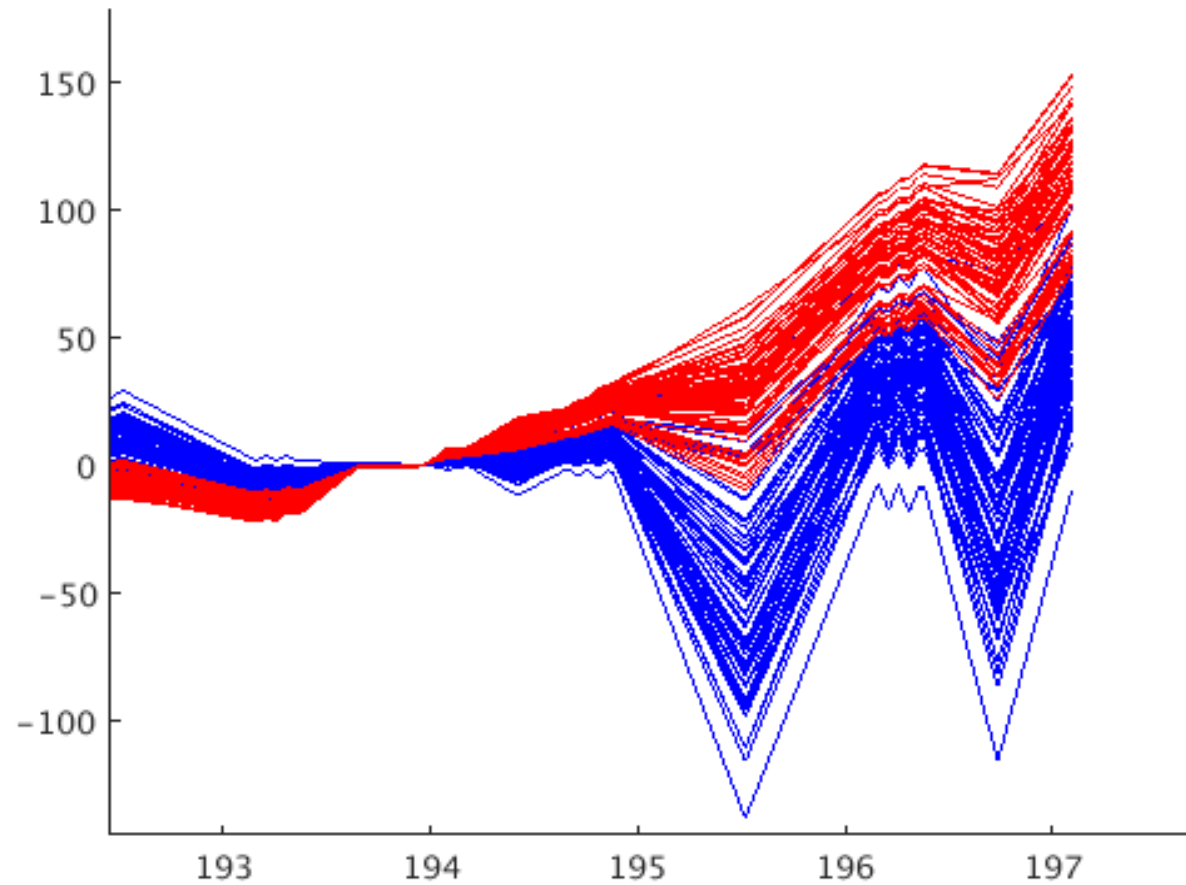
# Position/Angle jitter envelopes



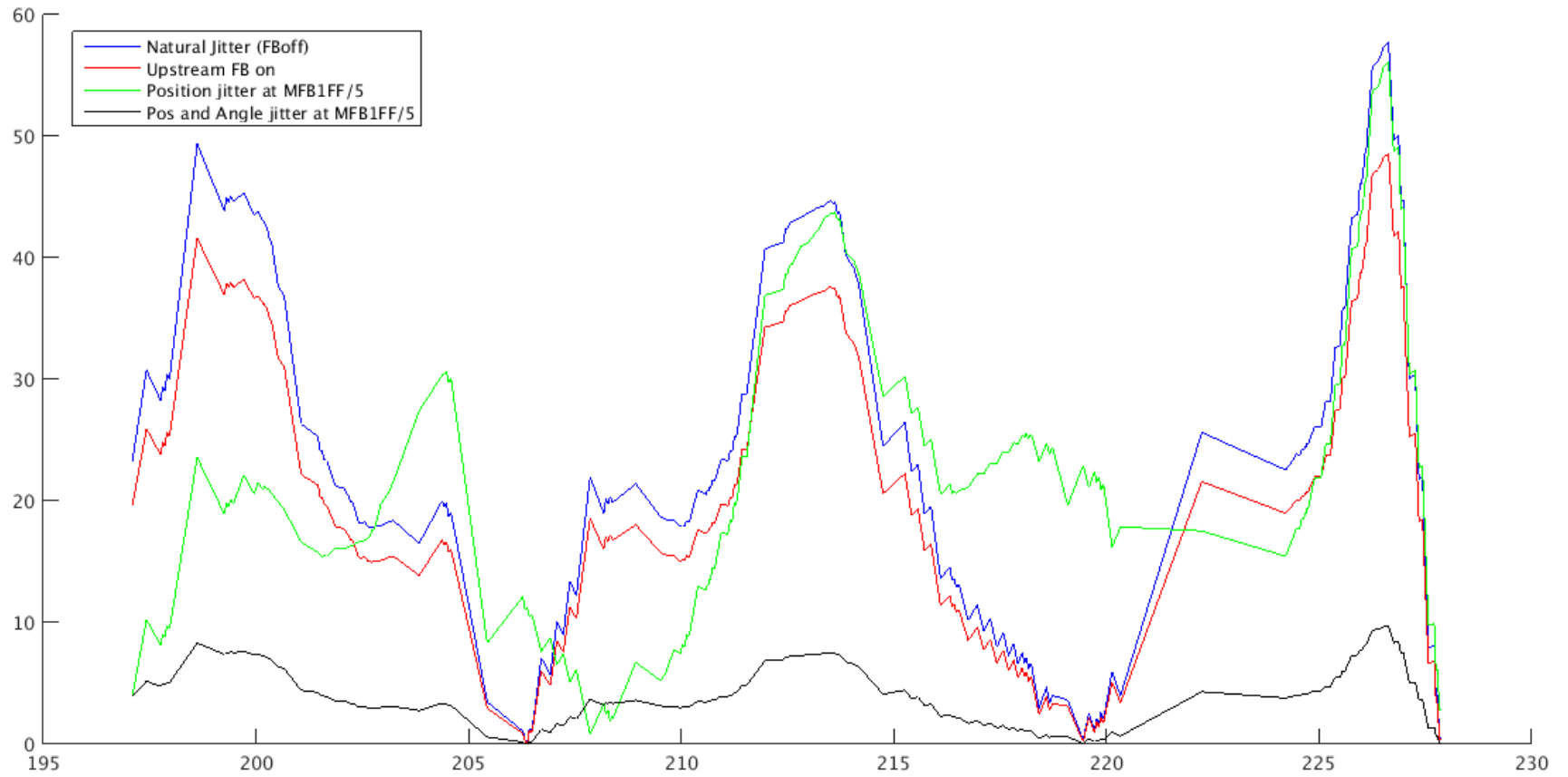
# Pos/Ang envelopes (2)



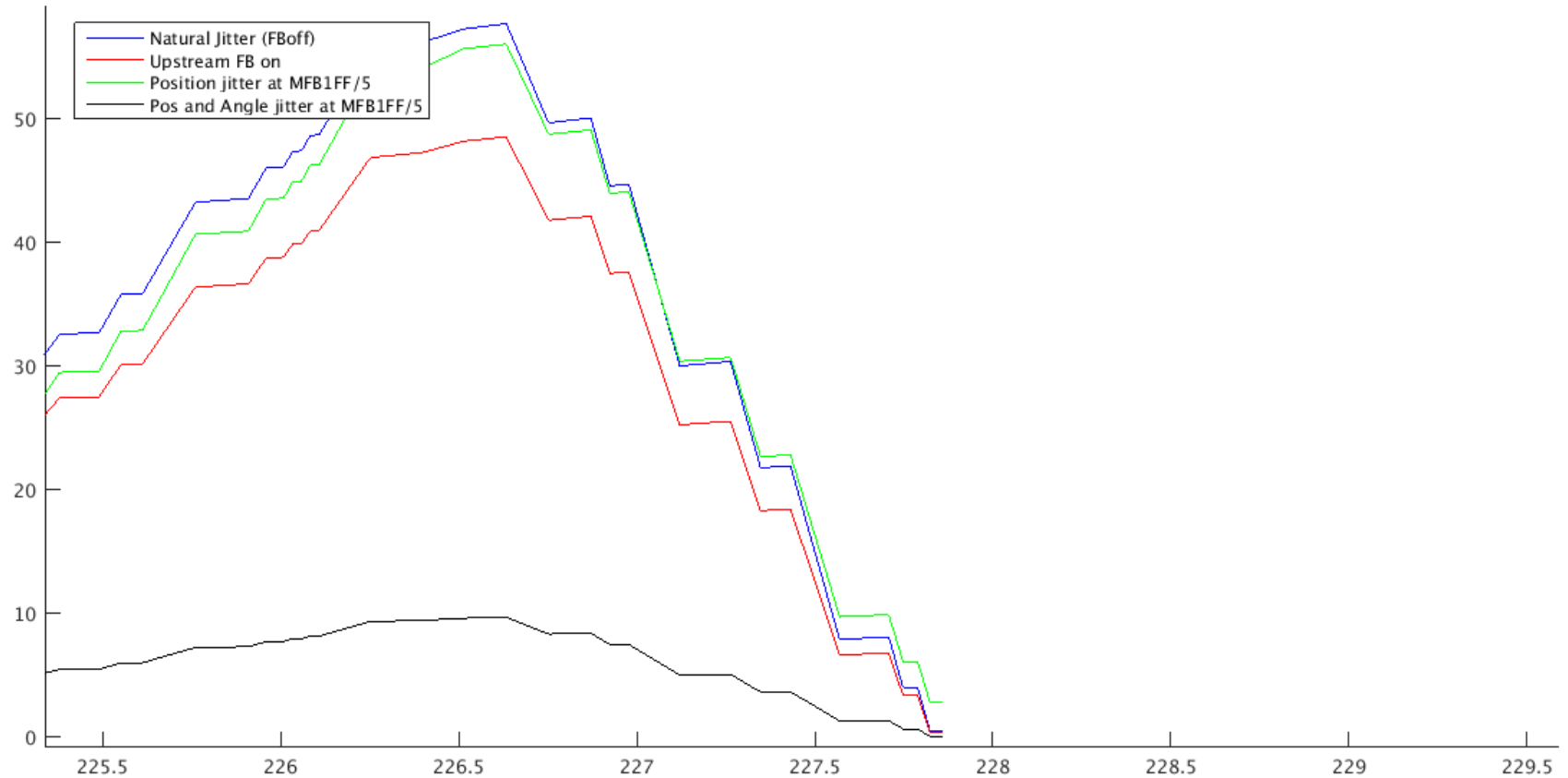
# Trajectories – shot-by-shot



# MFB1FF to IP



# MFB1FF to IP zoom



# 19/02/16 data (fbRun7)

Bunch RMS positions:

Feedback Off

	Bunch1	Bunch2	
FONTP2	1.78739	1.84598	um
FONTP3	2.26344	2.41572	um
MFB1FF	16.6951	15.7512	um

Feedback On

	Bunch1	Bunch2	
FONTP2	1.79214	0.849114	um
FONTP3	2.09454	0.797185	um
MFB1FF	16.7929	7.57146	um

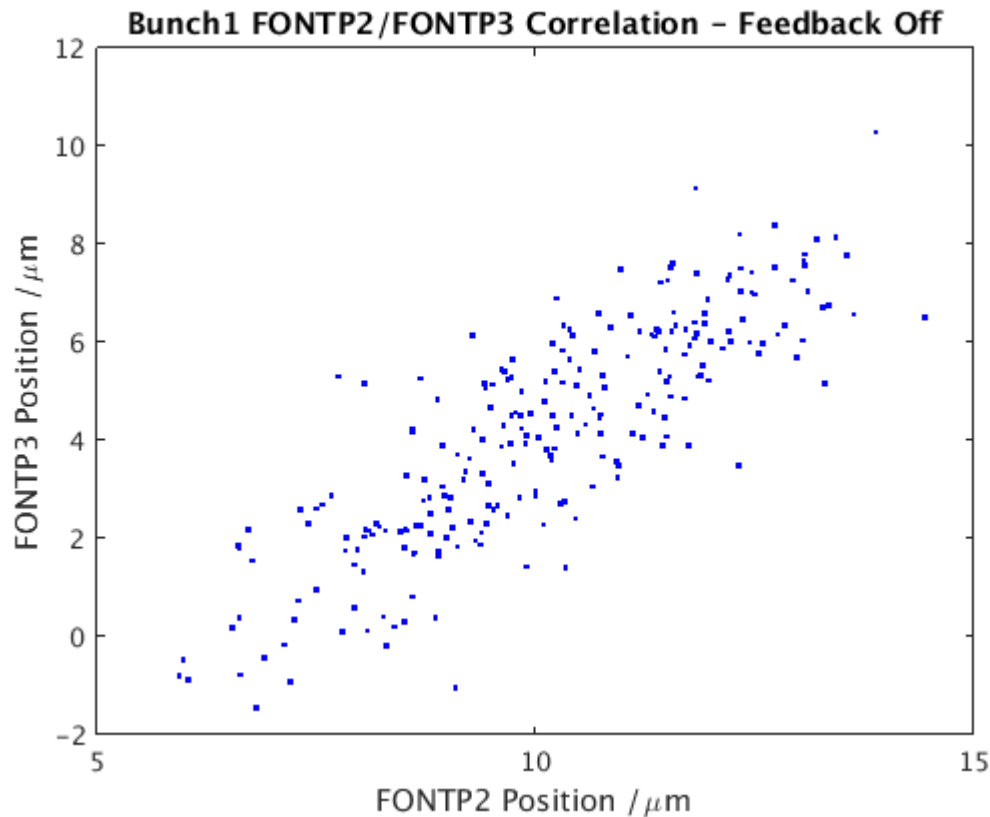
Geometrical calculation method:

	Bunch1	Bunch2	
FONTP2	0.925	1.0469	um
FONTP3	0.925	1.0469	um
MFB1FF	0.925	1.0469	um

## BPM-to-BPM correlations

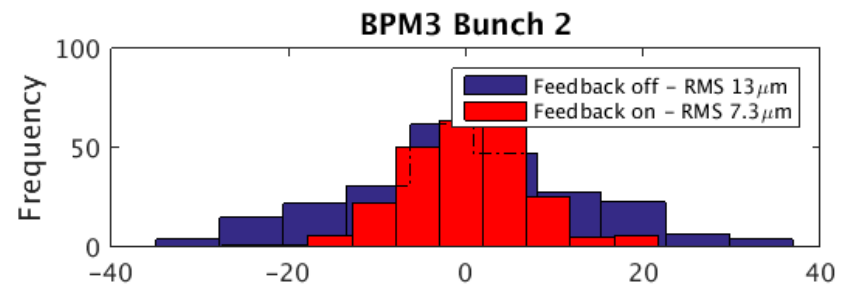
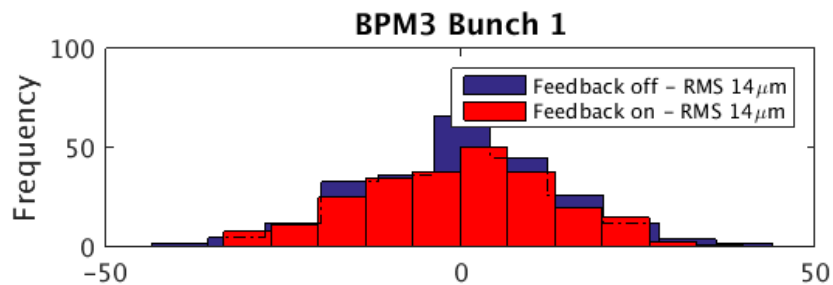
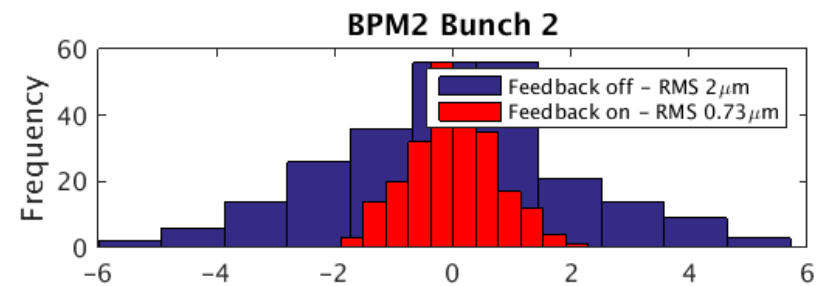
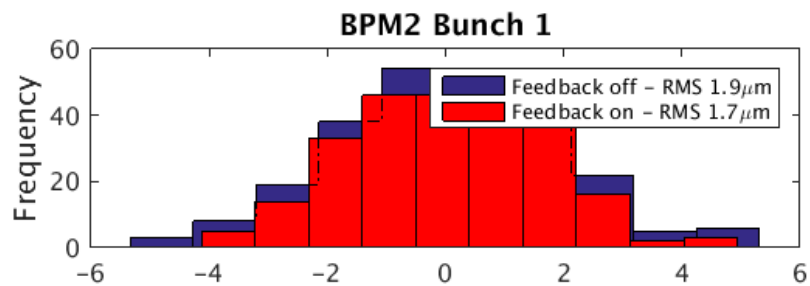
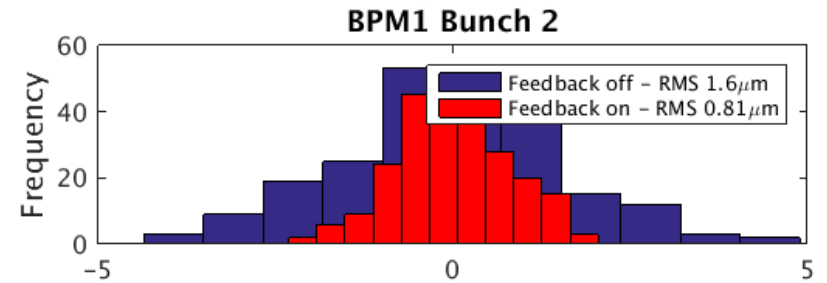
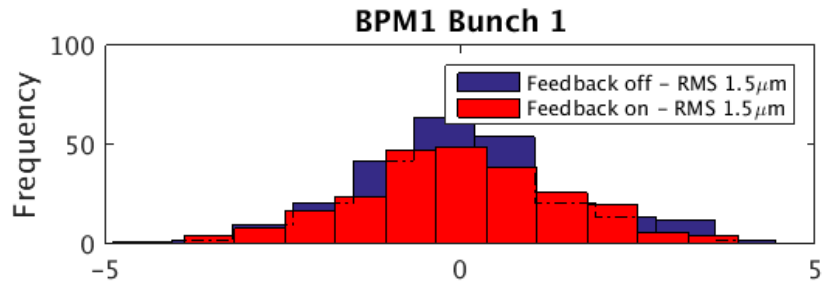
Correlation coefficient - Feedback Off :

	Corr12	Corr13	Corr23
Bunch1	0.83885	-0.8949	-0.8942
2	0.92266	-0.90175	-0.87011

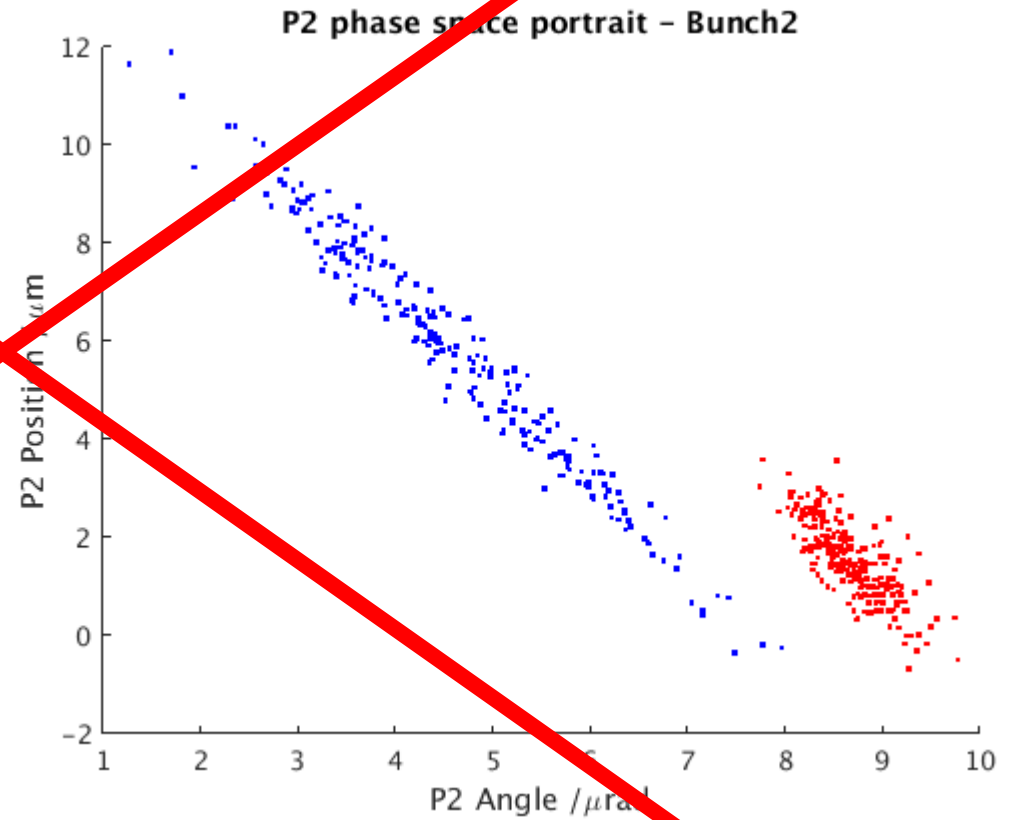
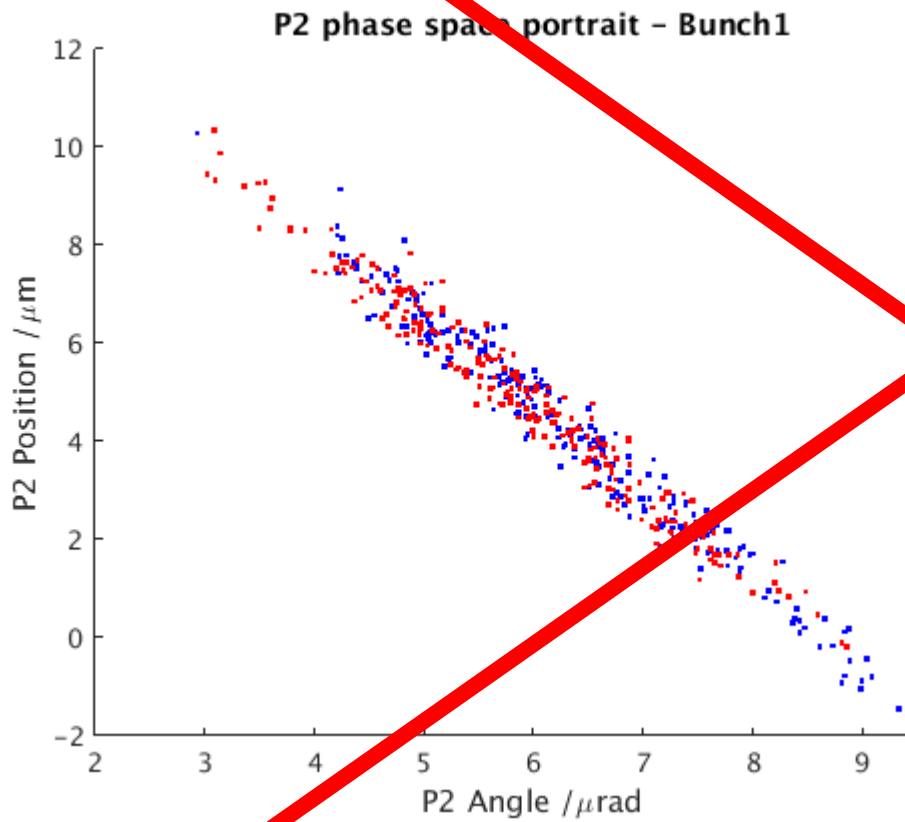




# Feedback Histograms

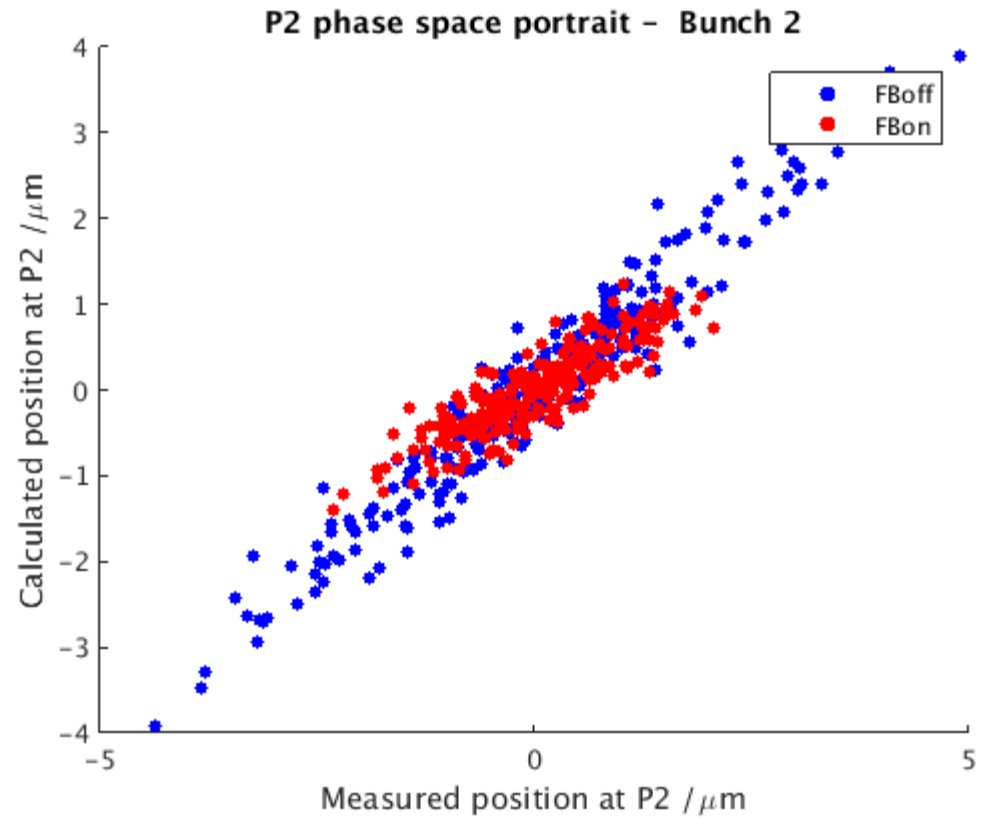
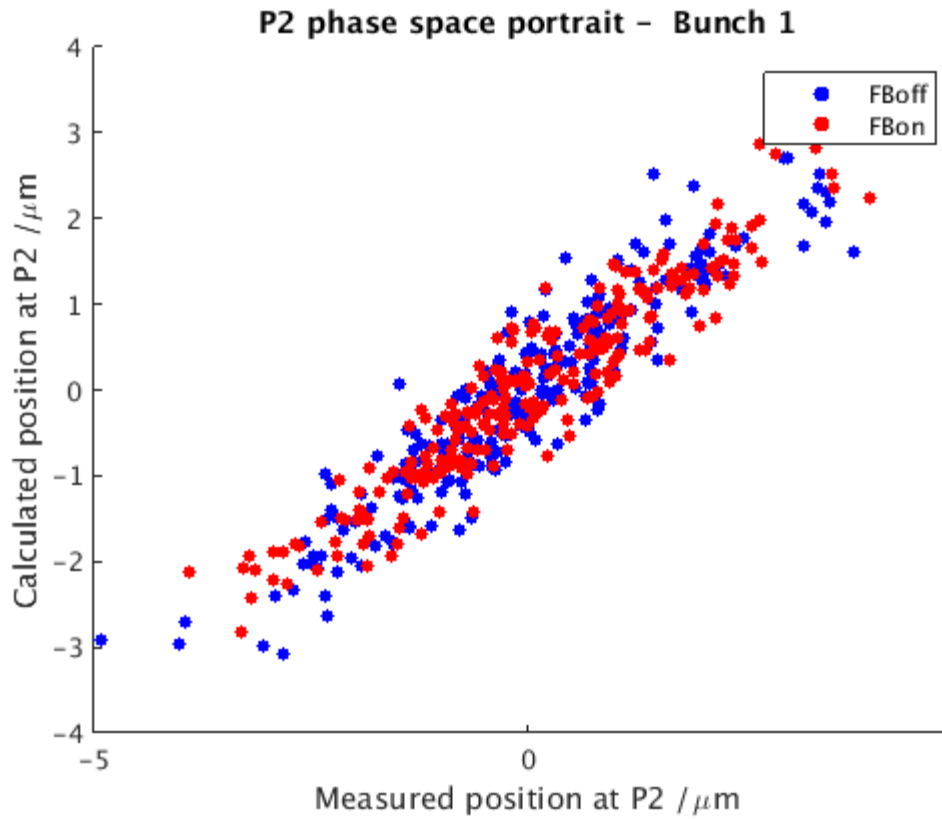


# Phase space at P2

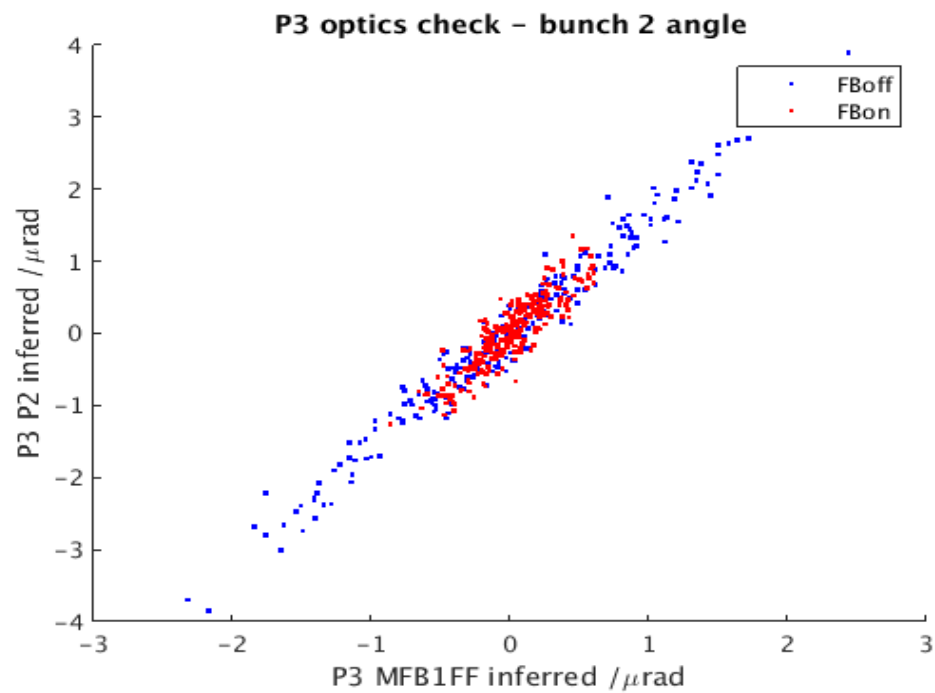
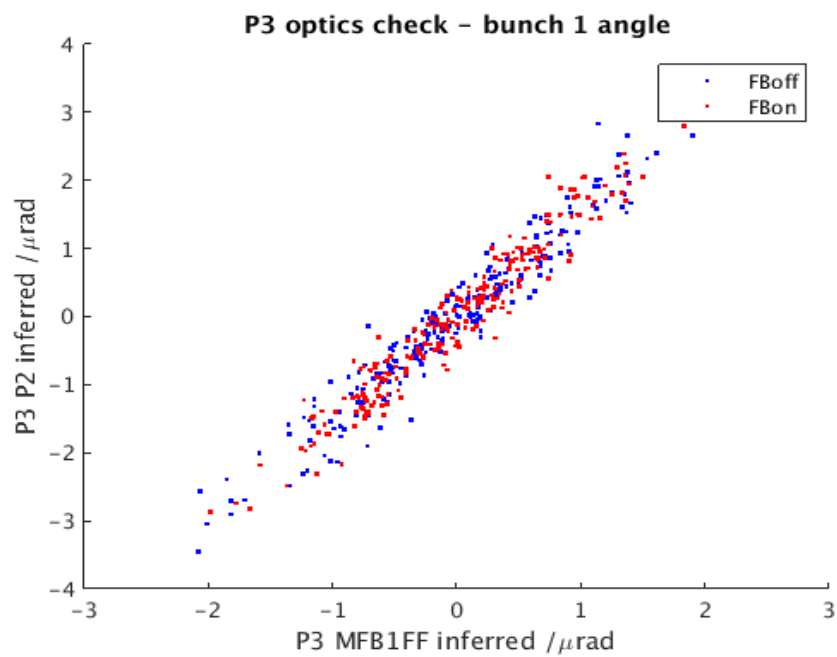
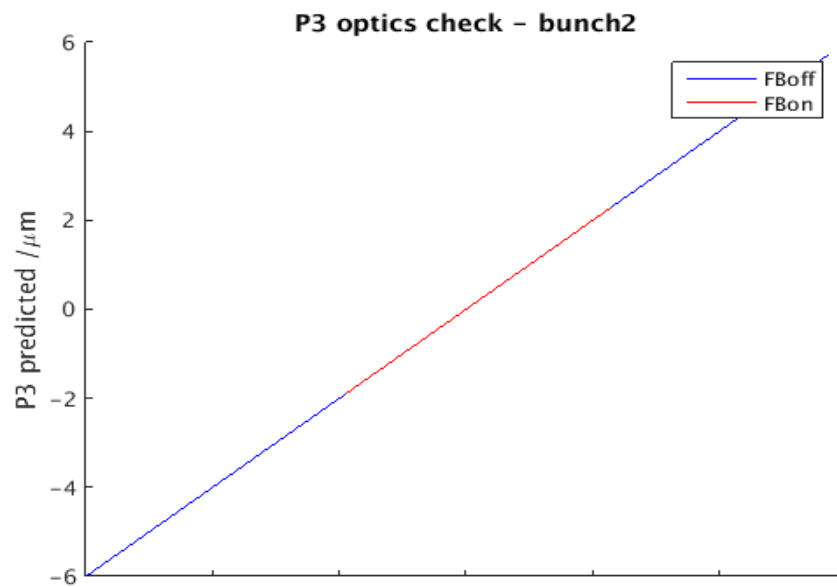
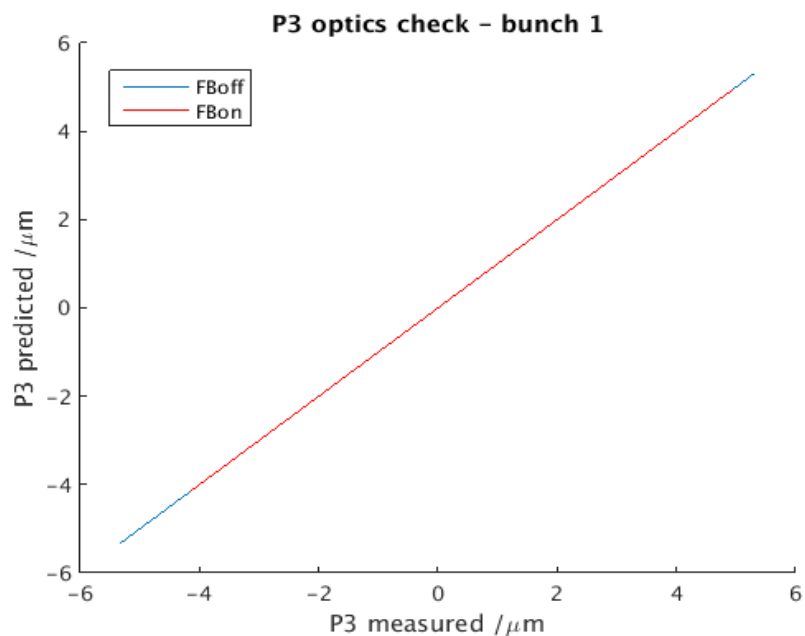


FbRun7\_190216 - Lucretia/FS sims

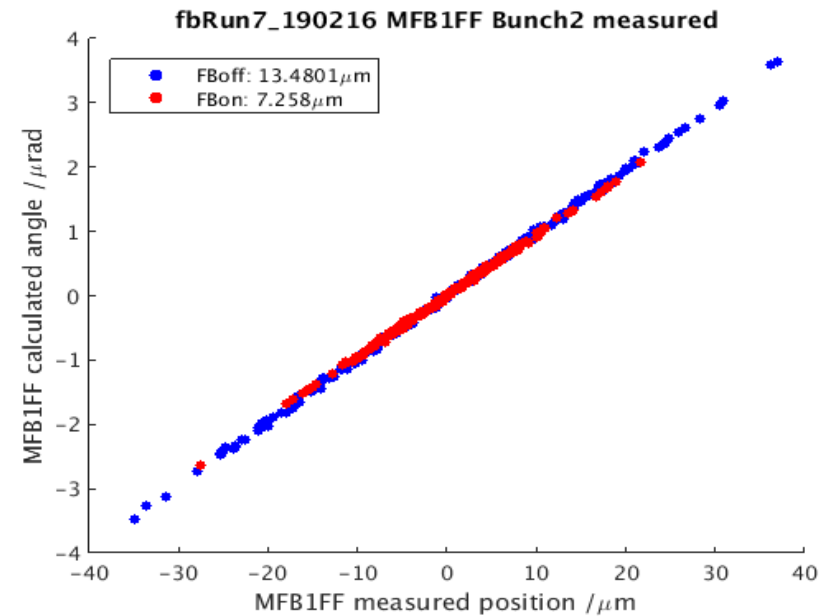
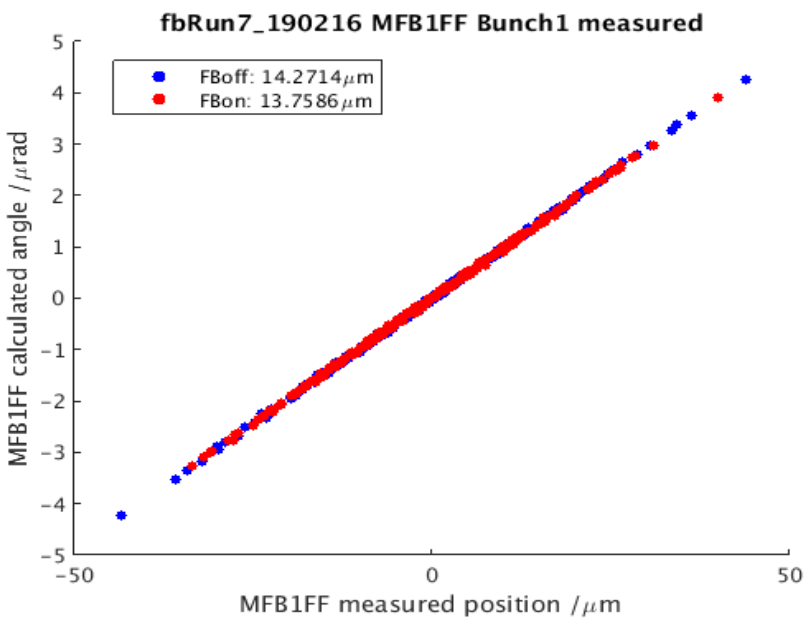
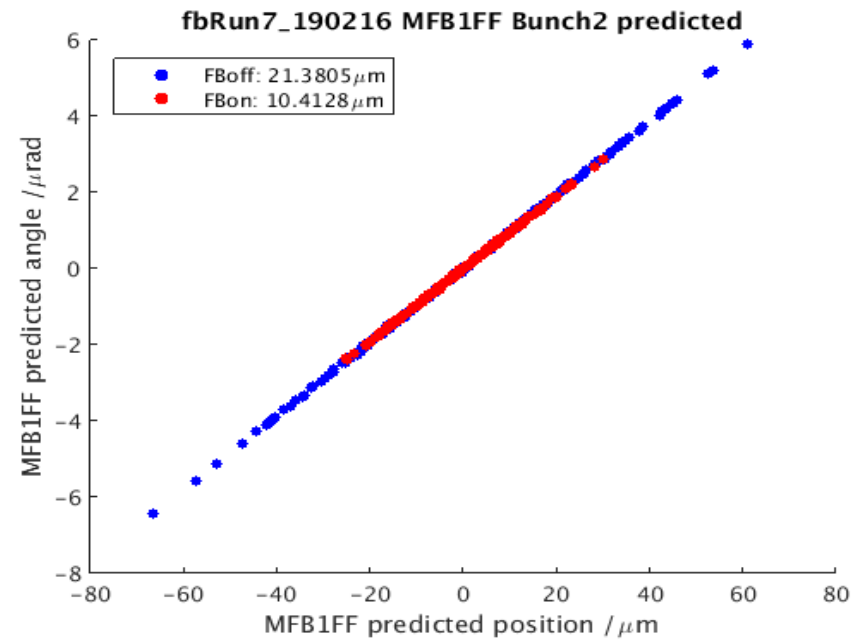
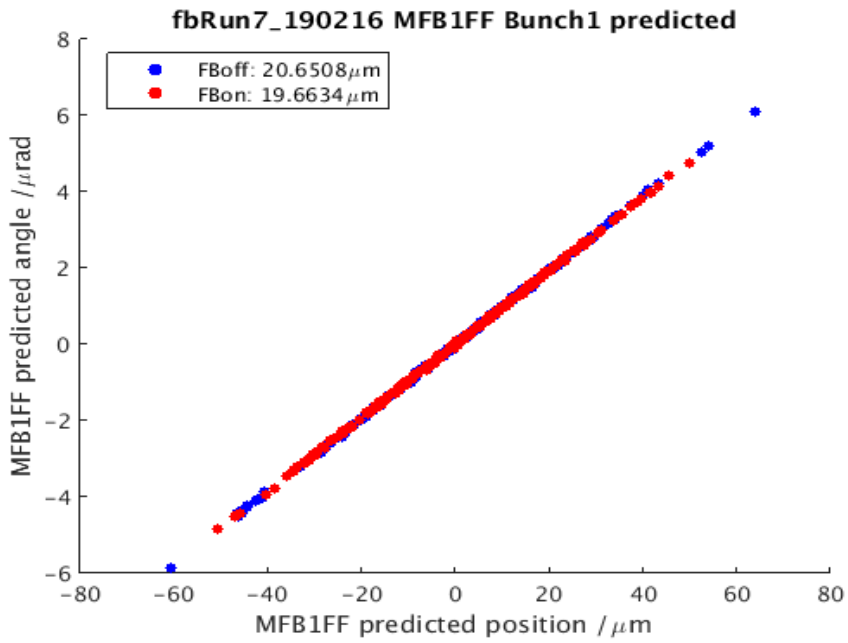
# P2 Phase Space



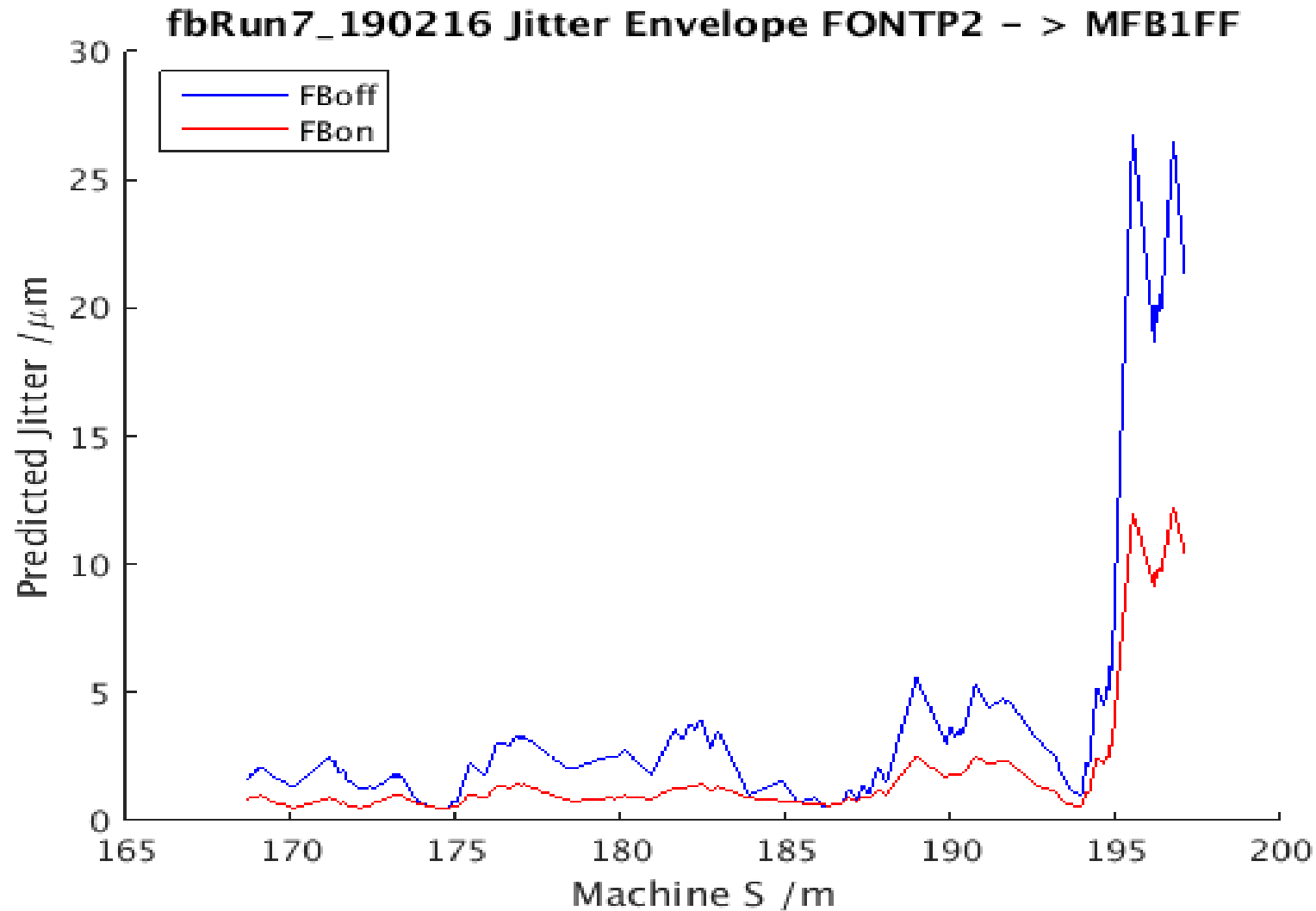
# P3 checks



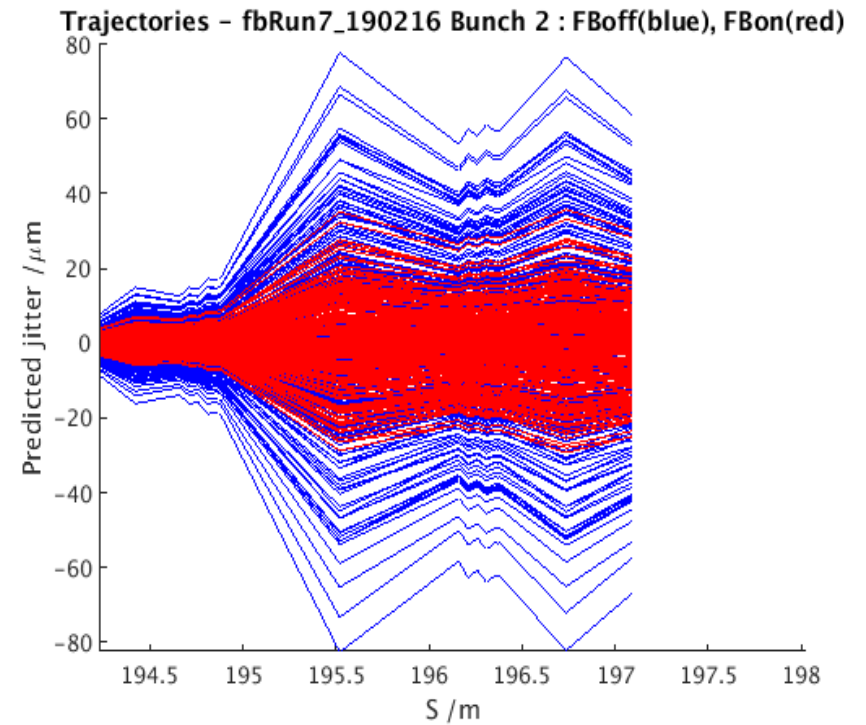
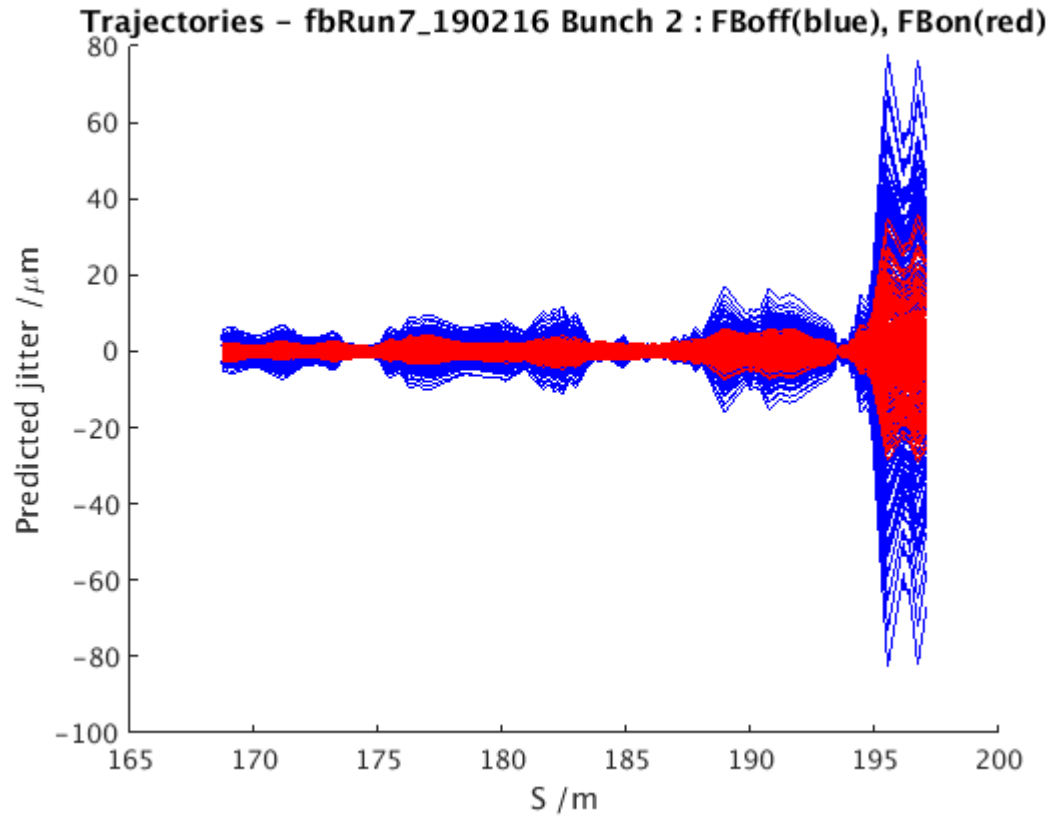
# MFB1FF predictions/measurements



# Jitter envelopes P2 - MFB1FF



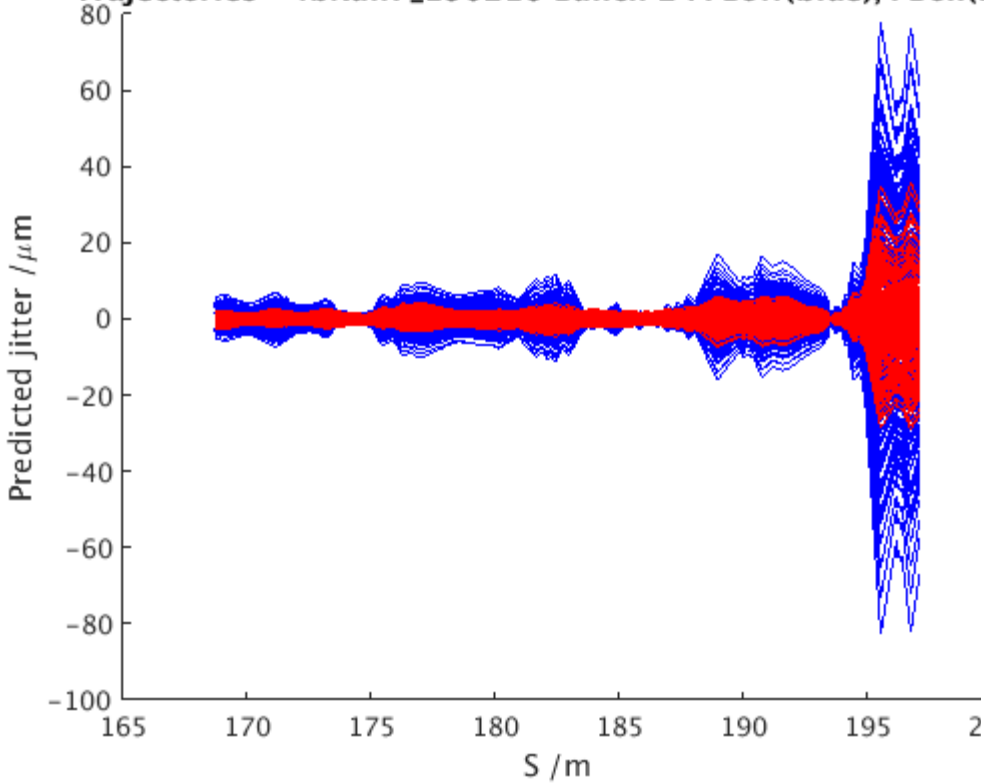
# Trajectories – shot-by-shot



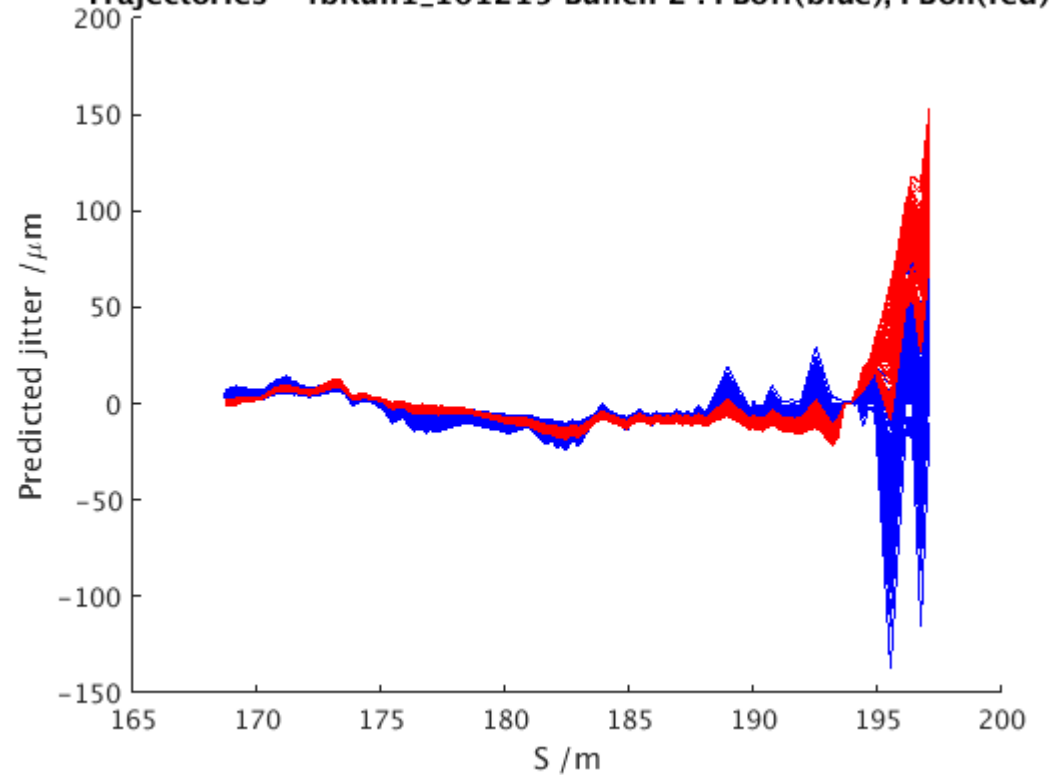


# Comparison to December

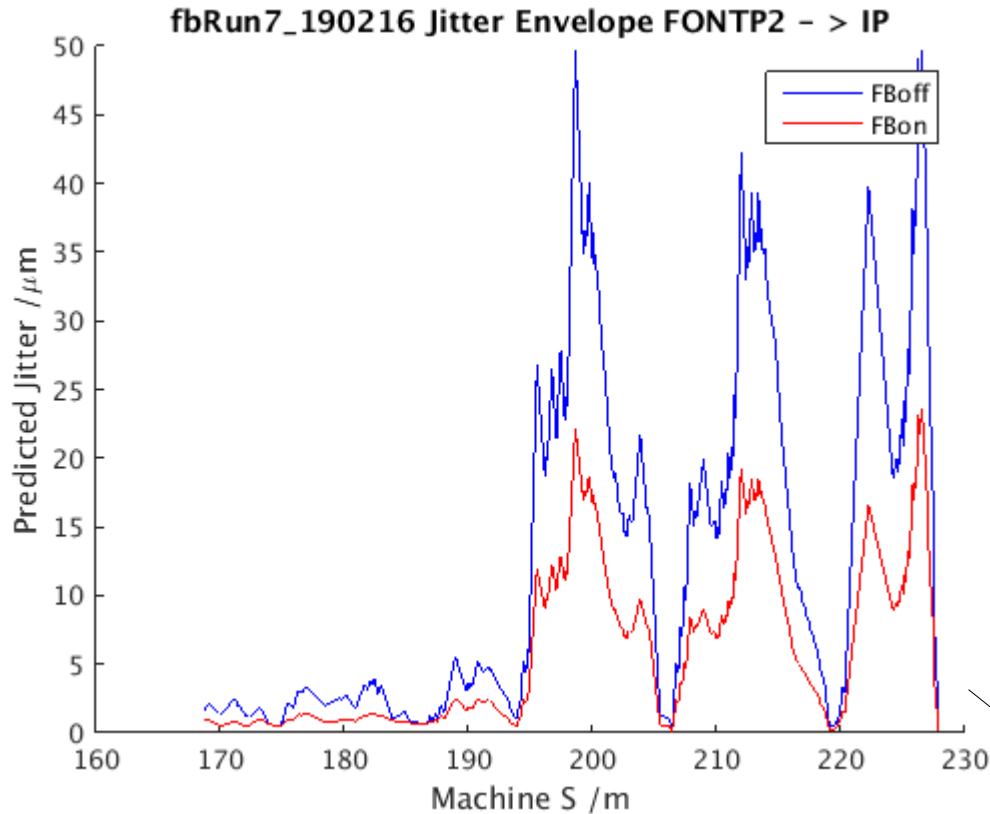
Trajectories - fbRun7\_190216 Bunch 2 : FBoff(blue), FBon(red)



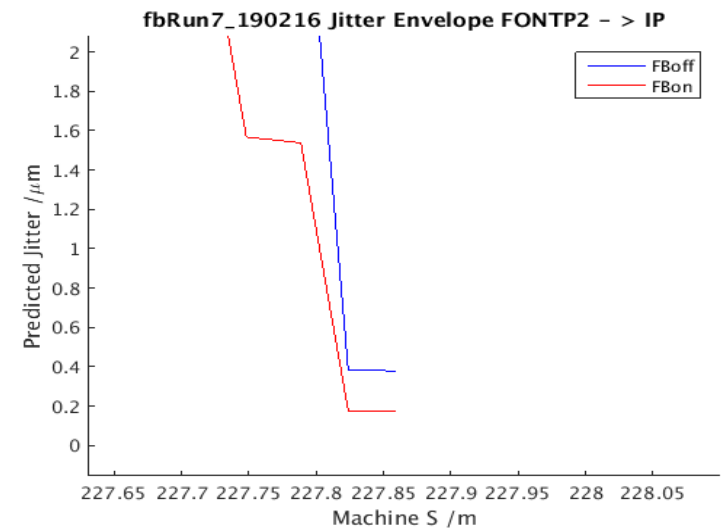
Trajectories - fbRun1\_161215 Bunch 2 : FBoff(blue), FBon(red)



# Jitter Envelopes P2 to IP



ZOOM AT IP



NB: Jitter at IP 'marker' not actual waist

# Simulated feedback

