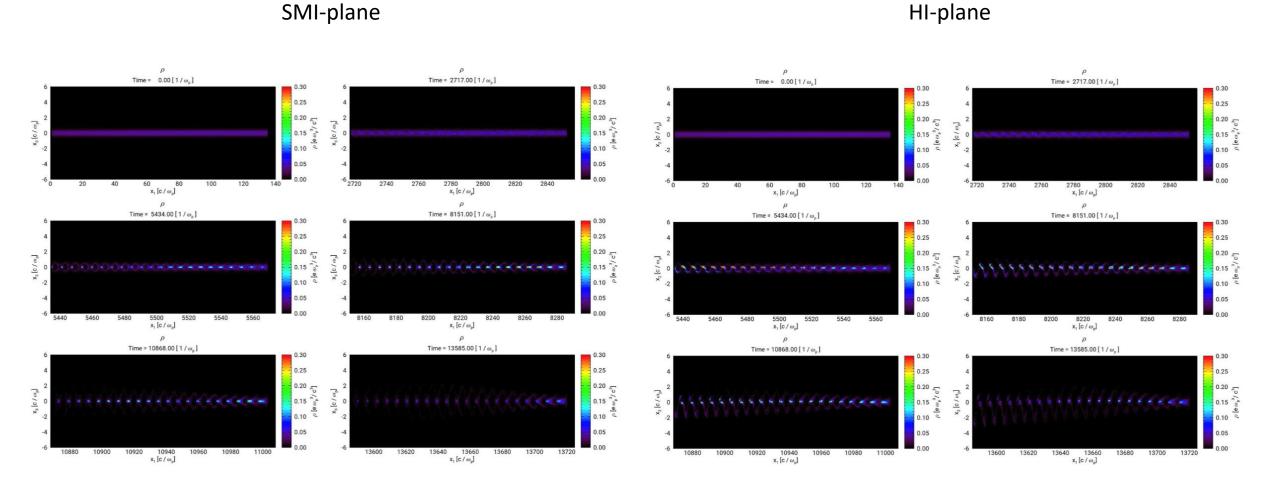
Hosing Analysis – FFT of Simulation Data

Mathias Hüther MPP Munich

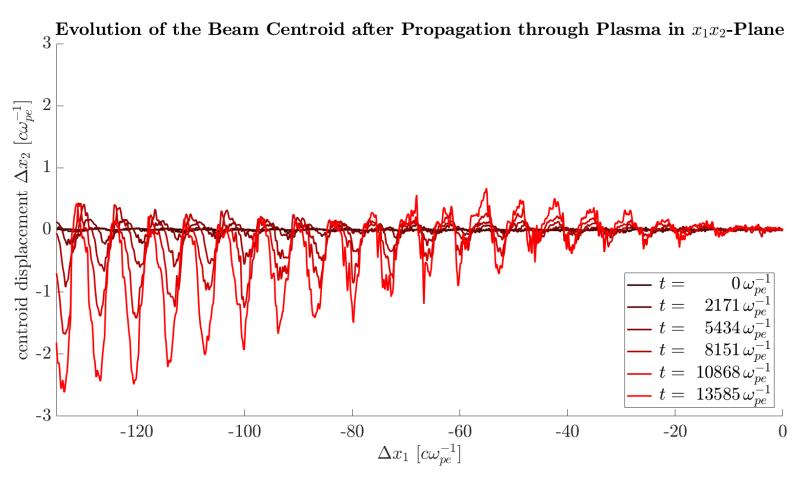
31.01.2019

1. Propagation through Plasma



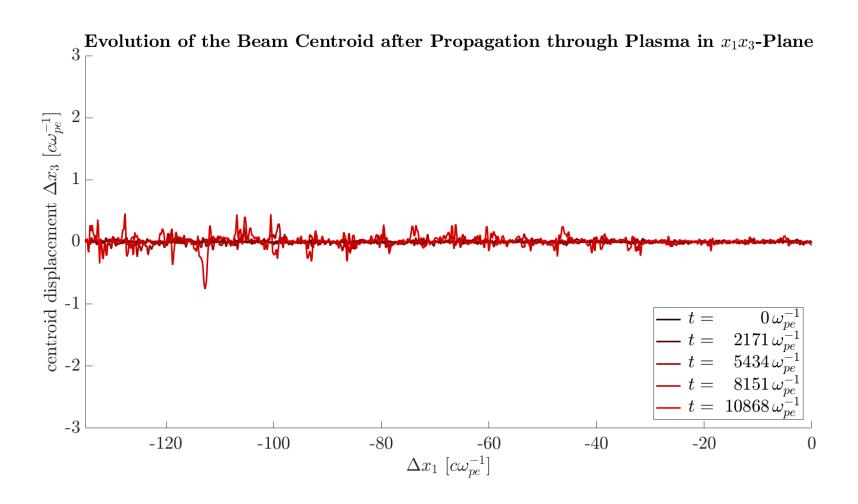
1. Propagation through plasma

Hosing plane:



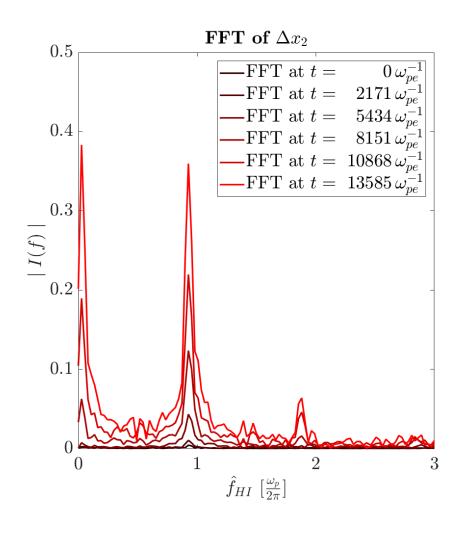
1. Propagation through plasma

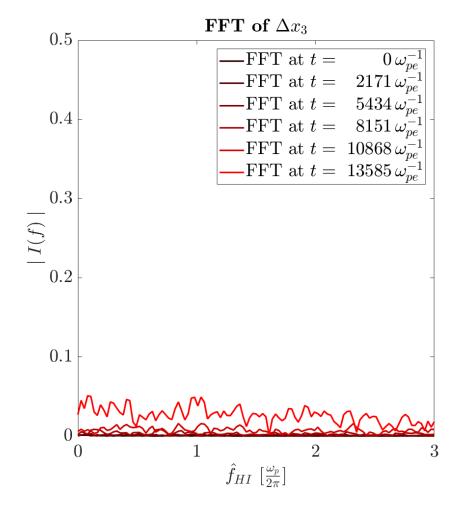
SMI-plane:



1. Propagation through plasma

FFT of centroid position:



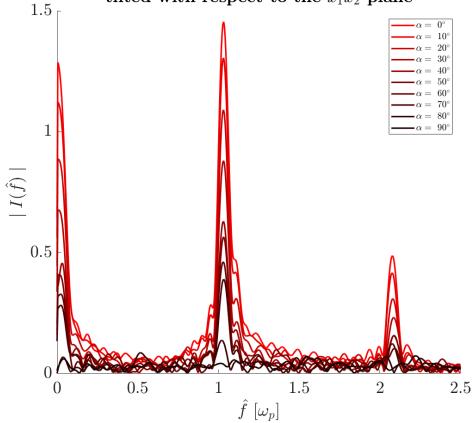


2. Angle scan

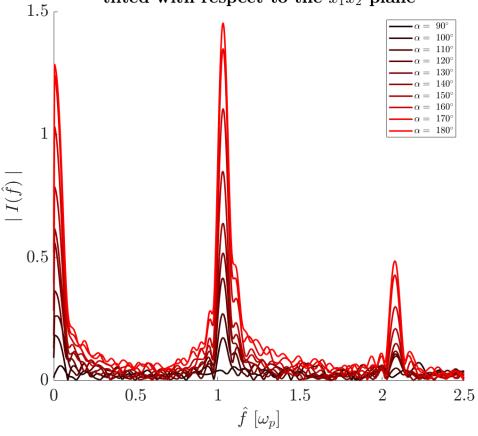
	WWW.VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	**************************************	mananananananananananananananananananan
0°			
50°			90°
			a ja
100°			
**************************************	******************************		
150°		180°	

2. Angle scan

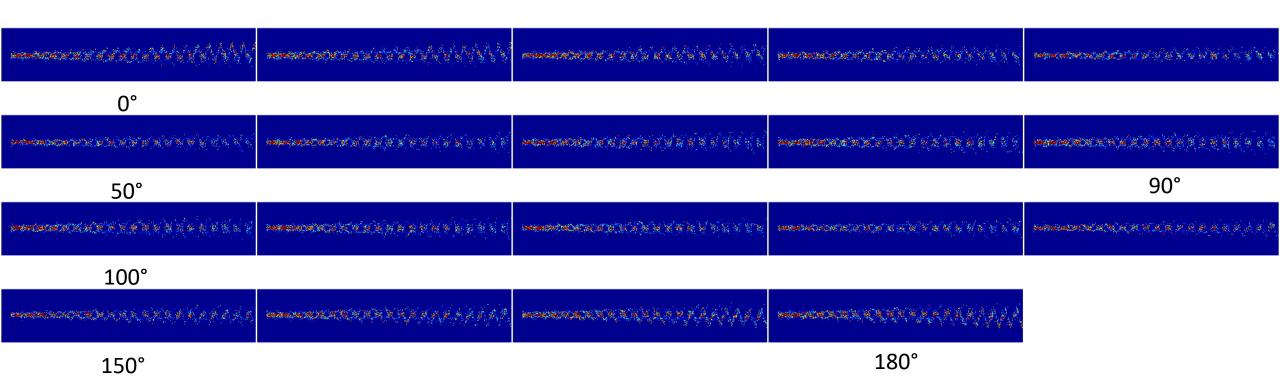
FFT of centroid displacement for different angles α tilted with respect to the x_1x_2 -plane

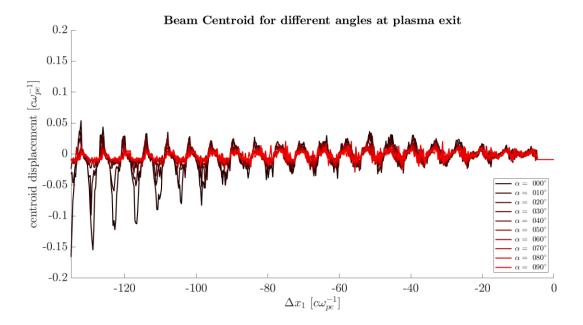


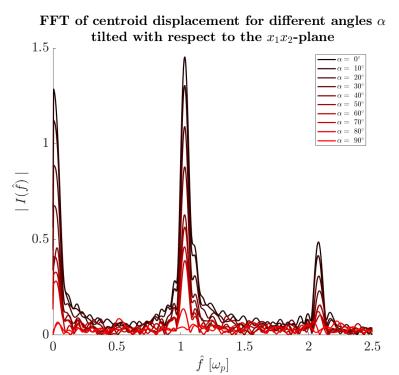
FFT of centroid displacement for different angles α tilted with respect to the x_1x_2 -plane

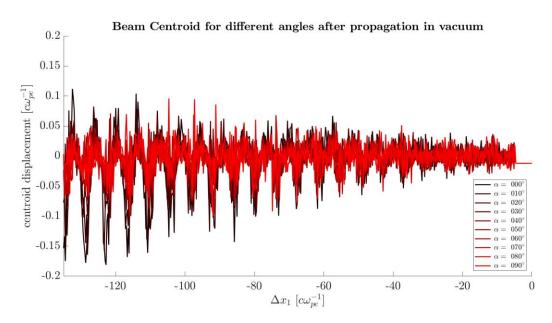


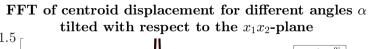
3. Angle scan (with propagation in vacuum)

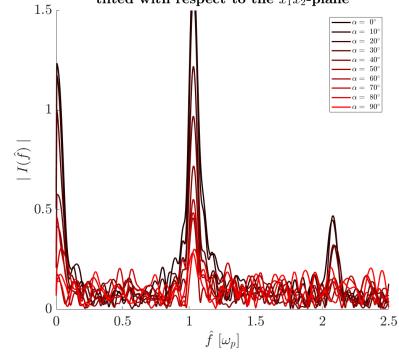






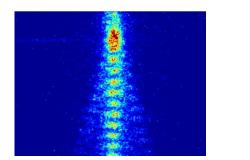


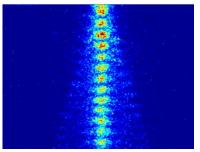


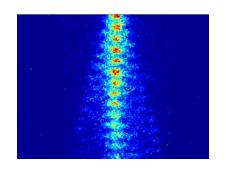


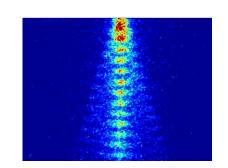
Now look into Streak Images ...

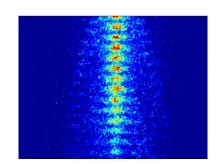
Events with SSM:

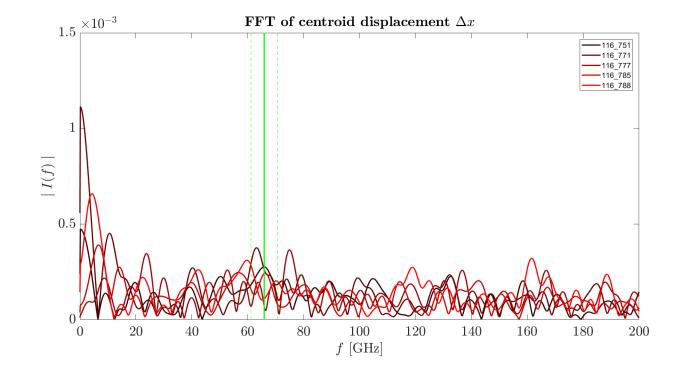






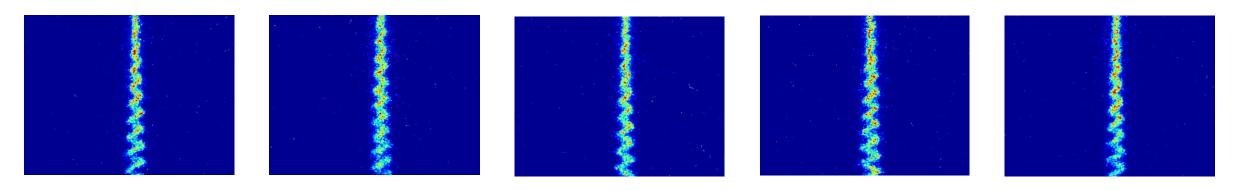


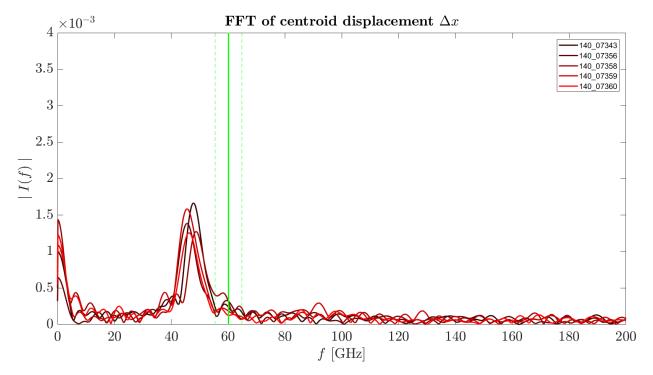




no delay

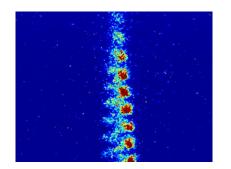
Events with symmetric Hosing:

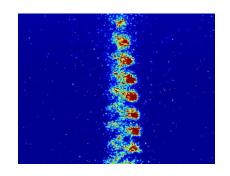


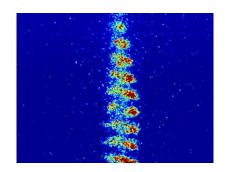


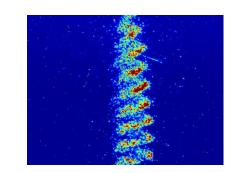
delay laser/p+: 1000 ns

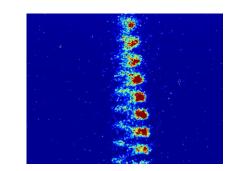
Events with asymmetric Hosing:

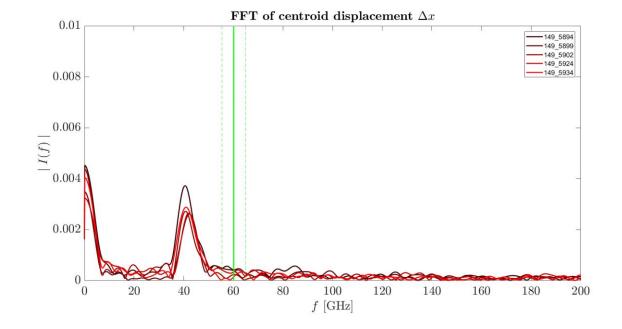






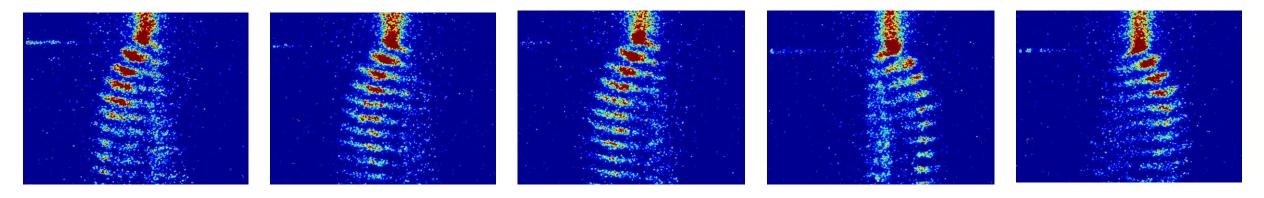


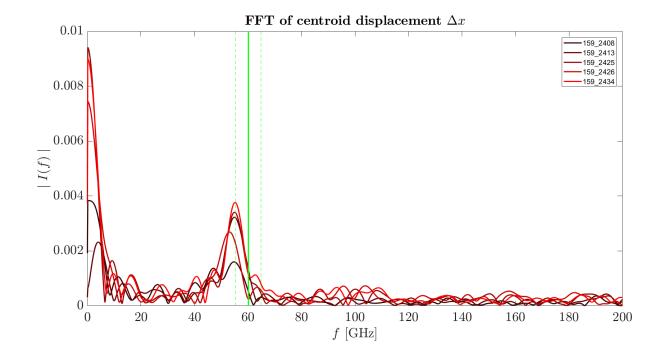




delay laser/p+: 3126 ns

Events with "Kicks":





no delay