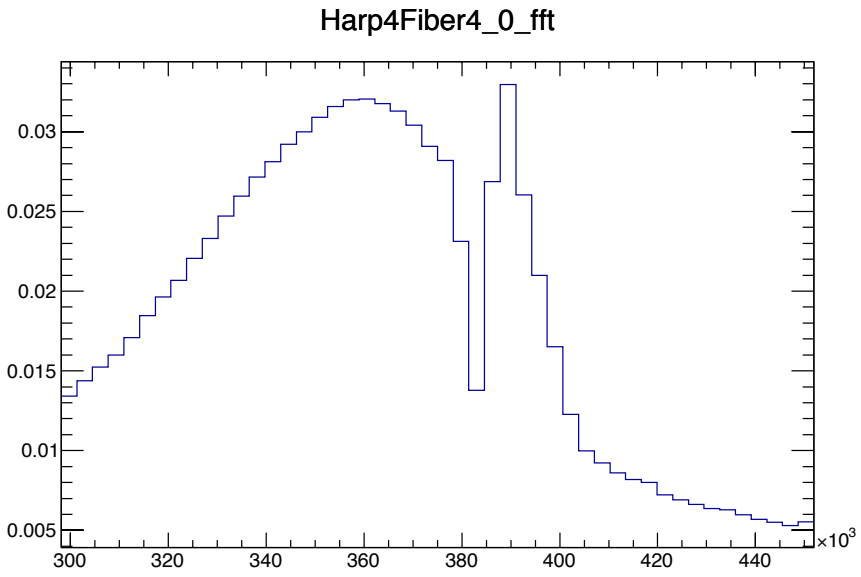
# Fiber Harp Measurement and Simulation

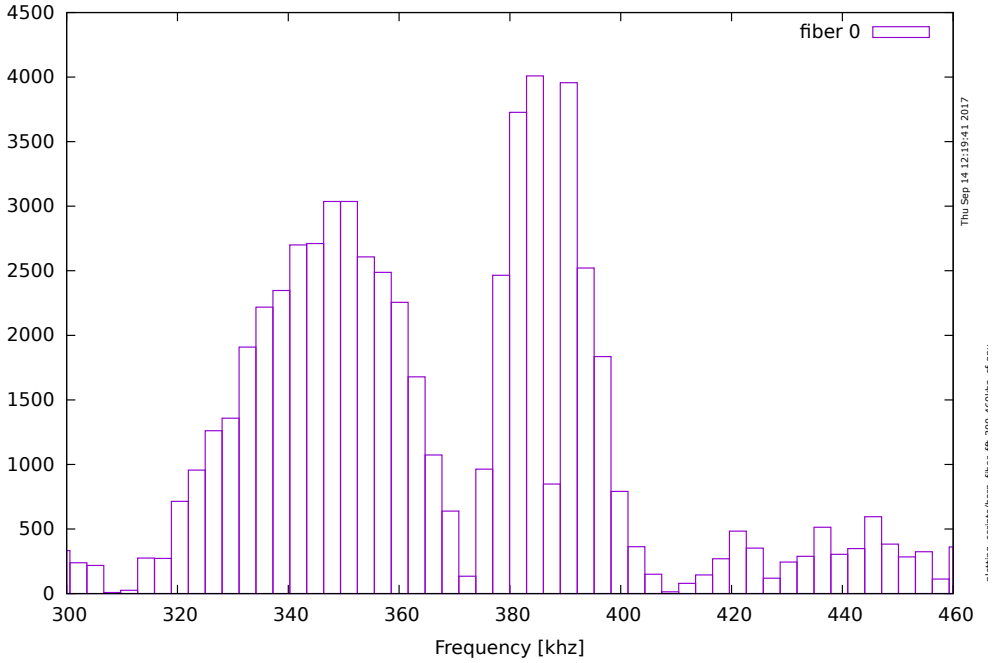
Chapelain and Rubin

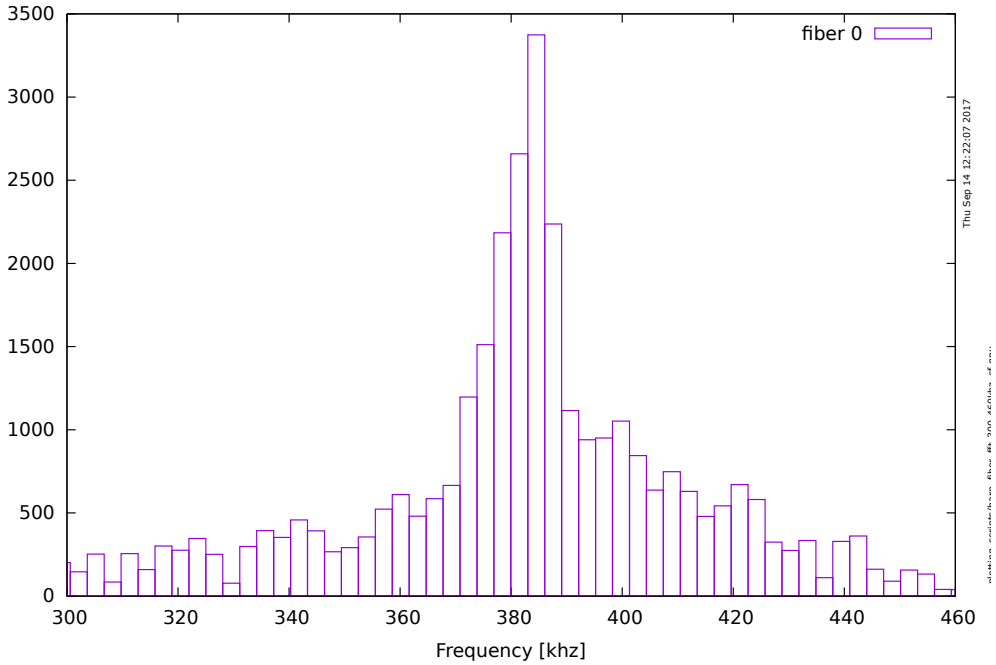
September 14, 2017



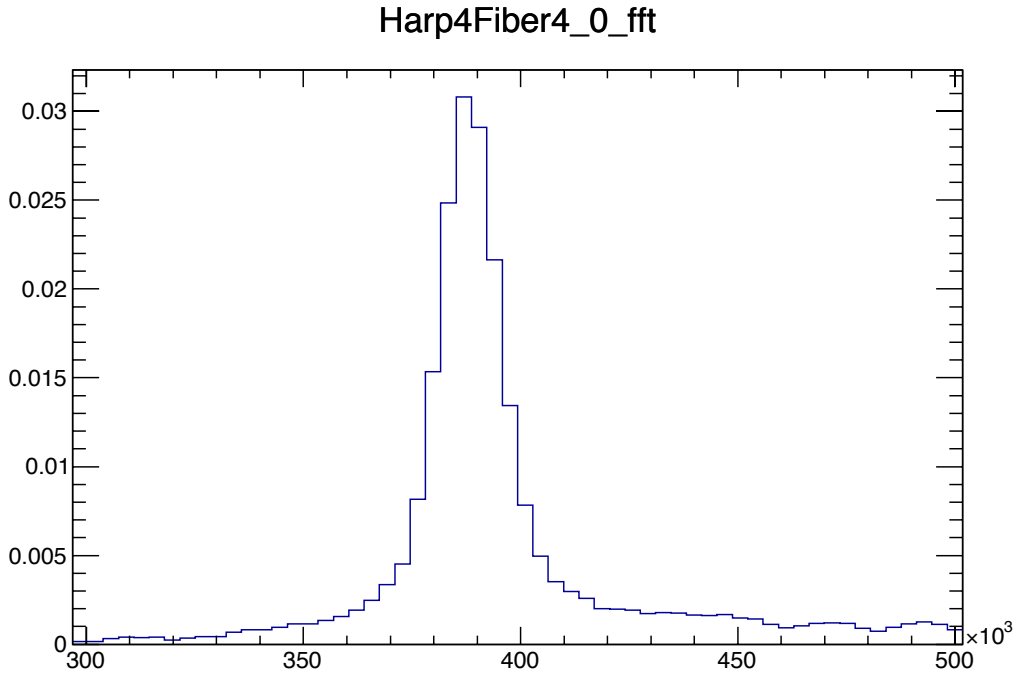

CBO – fft starting at 6us

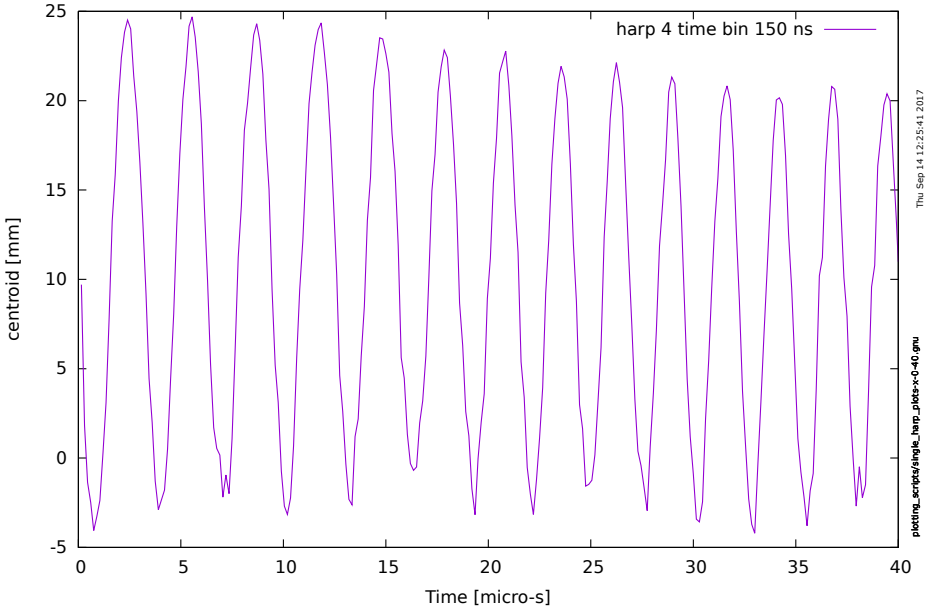
*Right peaks line up*
*Left peak not so much*



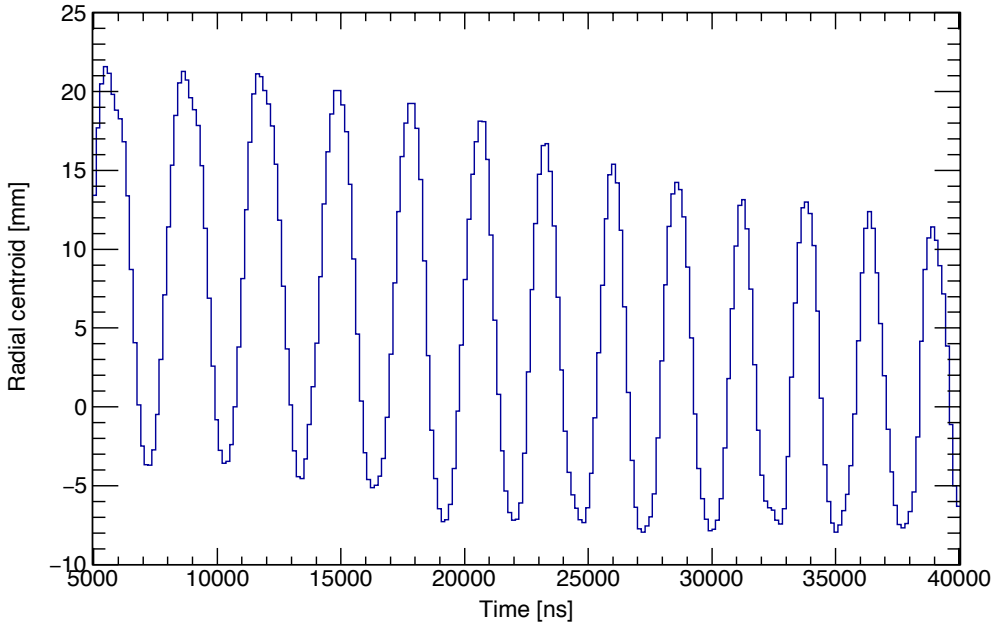


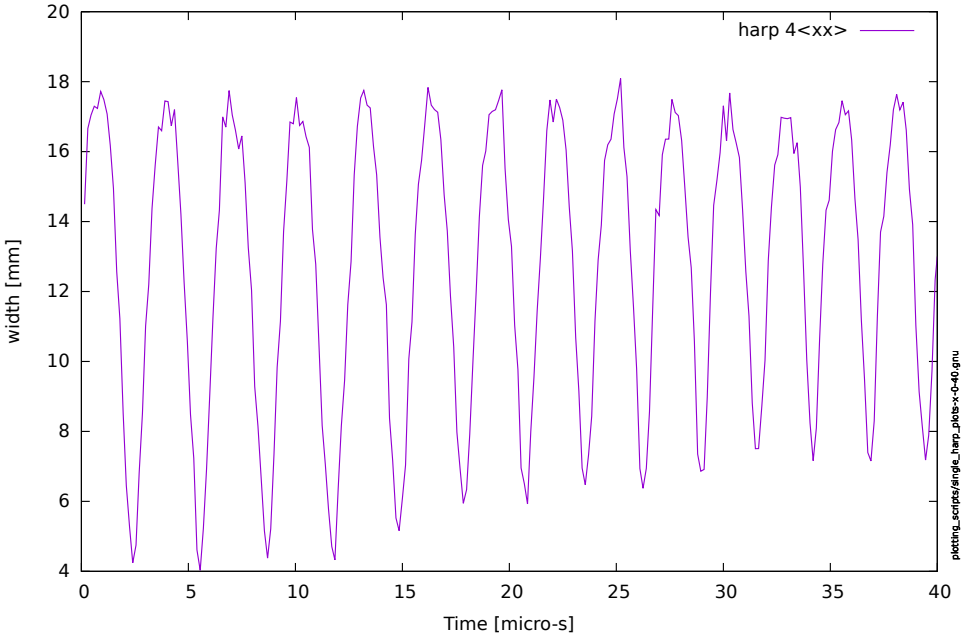

cbo after 35 us



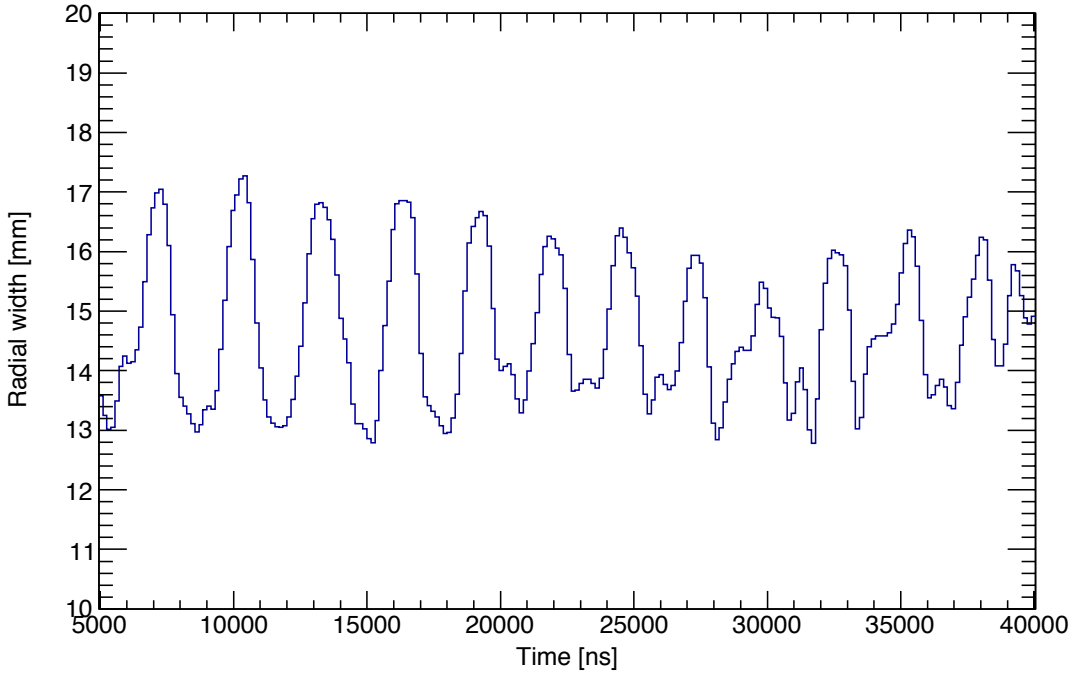

harp 4 time bin 150 ns
centroid [mm]
Time [micro-s]
Thu Sep 14 12:25:41 2017
plotting_scripts/single_harp_plots-x-0-40.gnu

centroid

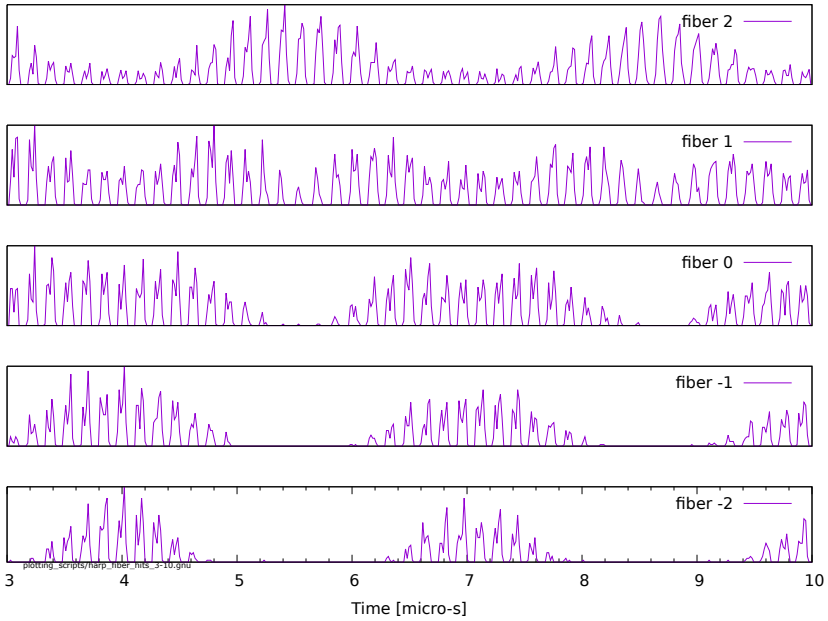

Radial centroid [mm]
Time [ns]


harp 4<xx>
width [mm]
Time [micro-s]
plotting_scripts/single_harp_plots-x-0-40.gnu

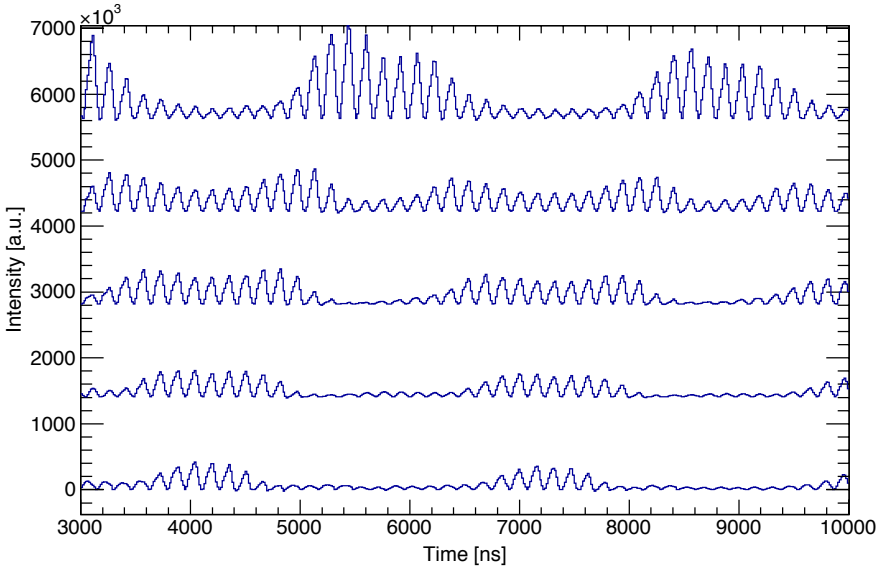
width

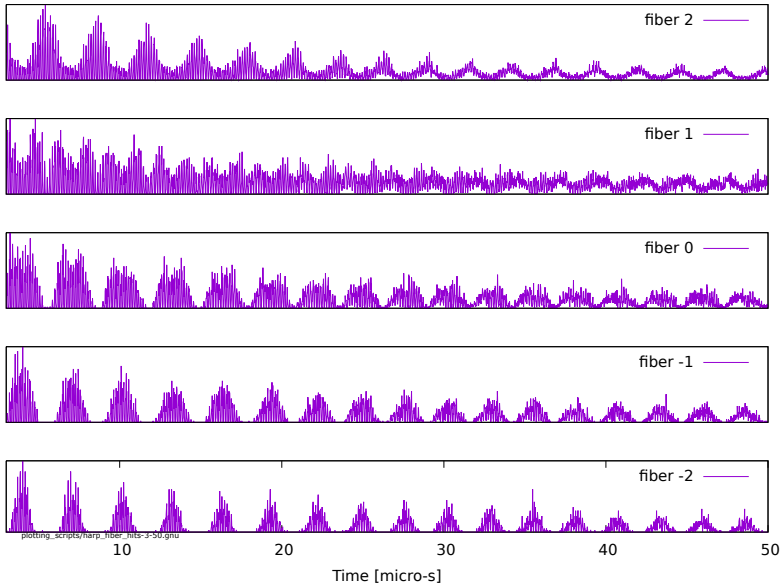

Radial width [mm]
Time [ns]

harp 4

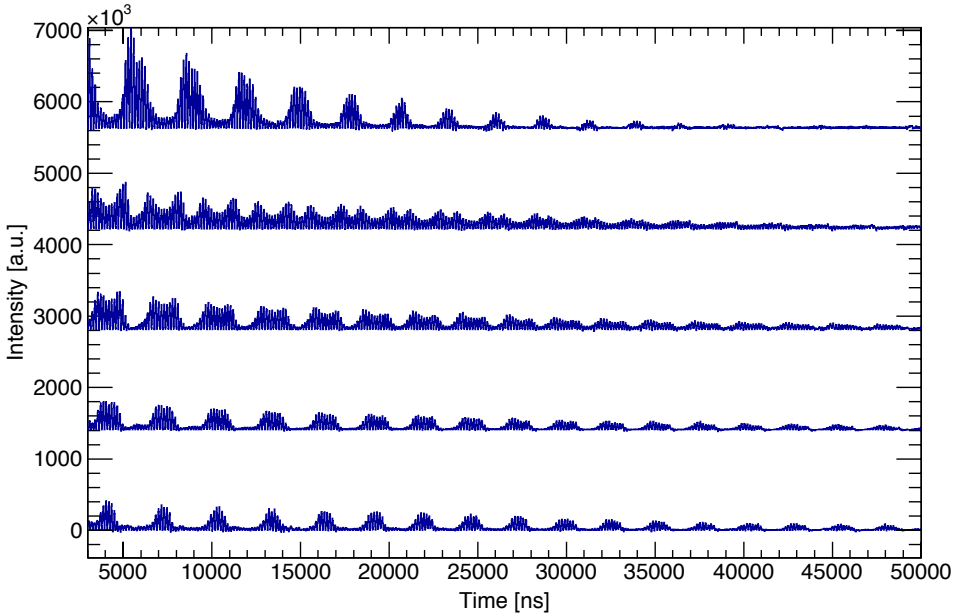


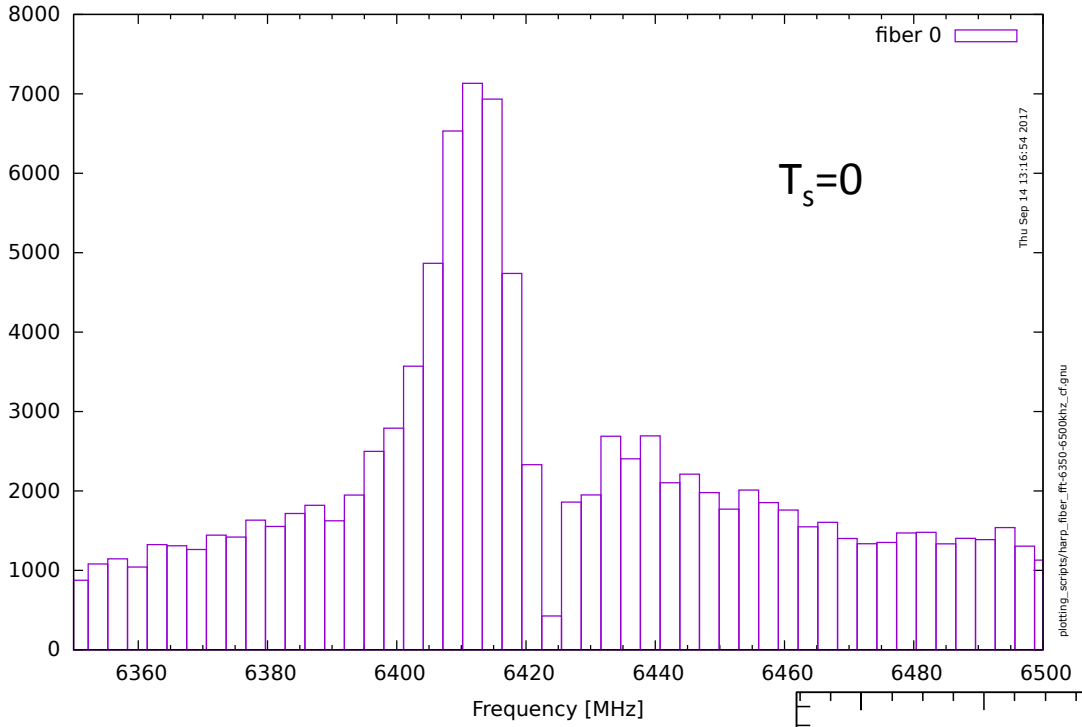

# Individual fibers





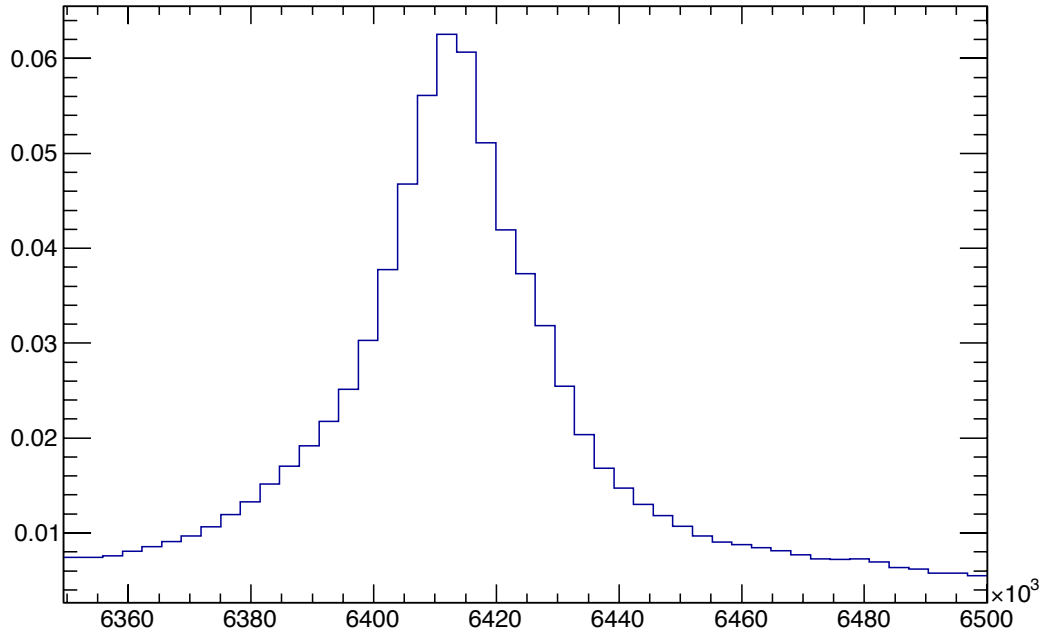

# Individual fibers



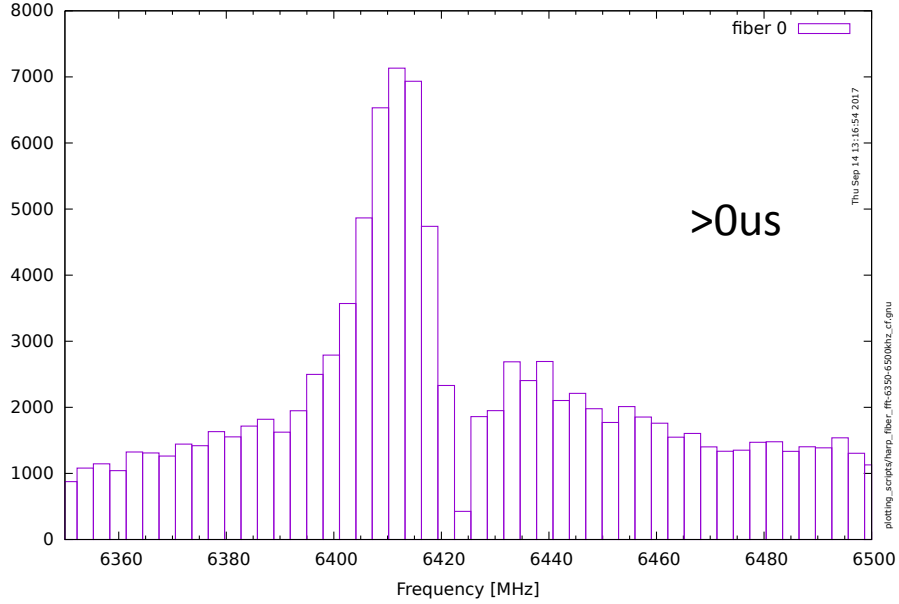



Fast rotation

Harp4Fiber4_0_fft

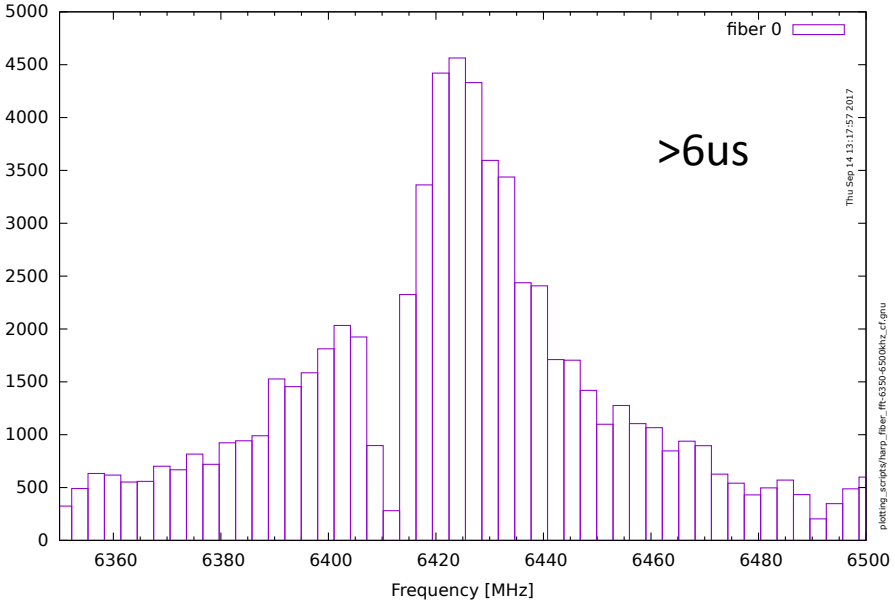


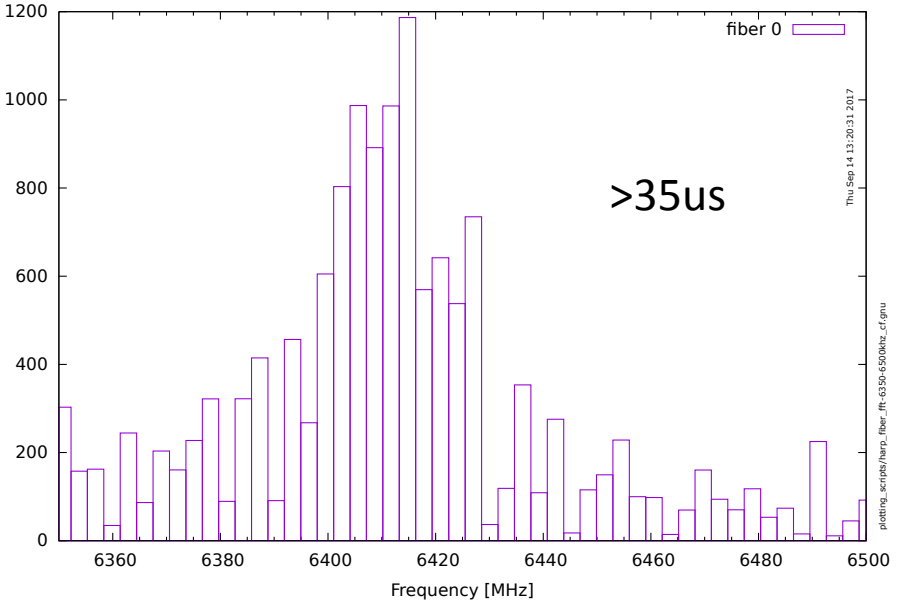

Peaks line up
Dip in simulation at 6425?




All plots are harp 4
(fiber 0 = center)

*Peak shifts right > 6us*
*and left again > 35us?*



# Simulation with nominal 290 G kick

