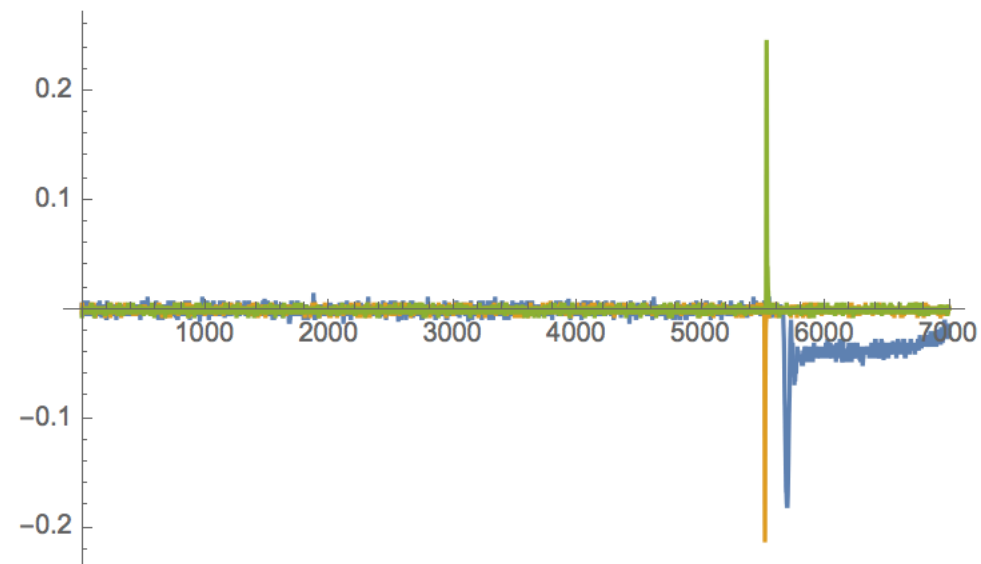# Filtering Options

S. White, HFS Detector Development Meeting, 18/4/17

- Large Signal-to-noise is a feature of HFS
- for most un-irradiated sensor data filtering ->minor improvement
- for irradiated sensors expect increased noise and possibly reduced internal gain
- interest in standardizing filtering
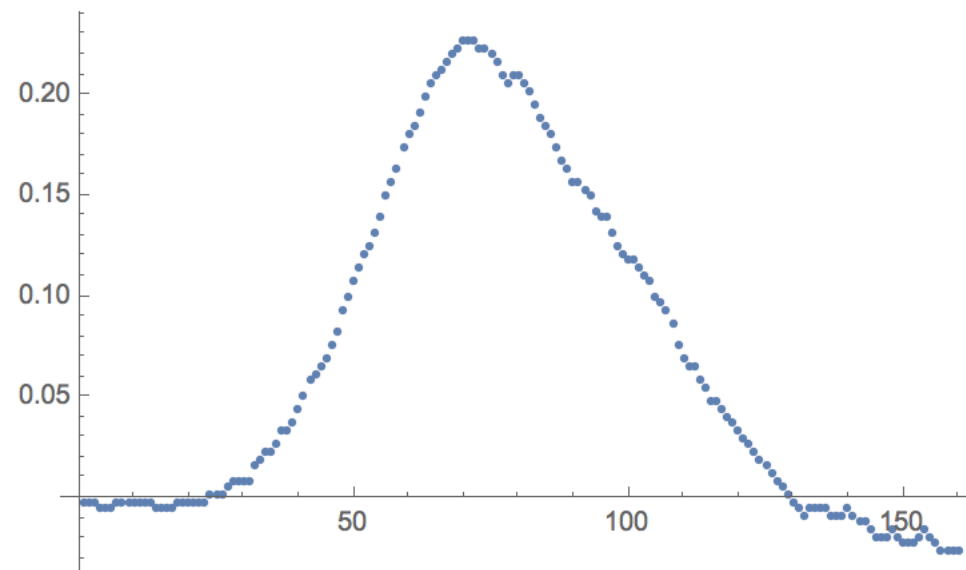- also a side activity w. Wolfram to put some functions in the Cloud: see e.g.: https://www.wolframcloud.com/objects/jhernandez/testFileImport

Data sets from '16 in H4

`ListPlot[{ps1sub[[i]], mcp1sub[[i]], -mcp2sub[[i]]}, PlotRange → Full, Joined → True]`

2 MCP's, no Amp
Mmegas chamber w. CIVIDEC

`ListPlot[hfswavefullcut[[1]], PlotRange → Full]`

expanded HFS signal region
M. Newcomer TIA
all in 50 picosecond samples

Simple Discrete Fourier Transform tool