

- 4-8GHz Core
 - Cable and fiber measurements
 - Now the system has noise. The upgrade will improve it.
 - Setting the dynamic range - should have 40dB.
 - Will start with the 2-4Ghz and will need a shift to bring the 4-8GHz back.
 - Want to make sure that the light link does not dominate the noise floor.
 - Optic fiber speed - measured 1% faster.
- Stacktail
 - Electronics rebuild
 - Original BAW cornered at 2GHz.
 - Found bandwidth of pickups only went to 3.5GHz. Rebuilt new notch filters.
 - Took out old system equalizer and put a band pass filter.
 - Rolls at around 2GHz and 3.2GHz
 - Slopes down.
 - Two things
 - Want the gain slope to work the other way
 - Two issues
 - Phase roll at edges
 - Amplitude roll at higher frequencies
 - If fixed 43ma with gain 9MeV.
 - Measured filters
 - If take equalizer out, 30->35ma/hr just by taking equalizer out.
 - Possible plan.
 - Come up with present equalizers
 - Then take equalizer out to get more bandwidth
 - Take new beam transfer measurements
 - Then design new equalizer
 - The devices are upstairs, so we can put them in and take them out as needed.
 - Would need another shift to do characterization.
 - Since plates were changed, have to
- Debuncher
 - Bands 3 and 4 notch filters
 - 5-10%
 - Put in double notch filter.
 - Taking away noise power
 - Half way through the cycle could switch them in.
 - Would be like going from 7pi to 8pi.
- ProtoType
 - Will go on the beampipe