

AGENDA

1) Core cooling:

- transverse cooling performance with new TWTs
- re-installation of transverse equalizers
- 4-8 GHz momentum hybrid flip
 - o Gain on most systems is at optimal gain.
 - VB3 is out of gain. Attenuator at 0dB
 - HB1 goes unstable when turn up
 - o Emittances are better, though emittances were coming down before change.
 - o Running at relatively low gain. Set diodes when stack was large. Power gets turned down as stack grows.
 - o If we do them all at once, we will want to quantify somehow.
 - o Put equalizers back in?
 - o Experiment. When at 20mA, switch off and then switch back on. Do individual bands, then all three together. Characterize all six, then decide which ones?
 - o Have to turn off stacktail monitor when do this. Do measurements for a few gain settings.
 - o Need to verify in the model to see if the equalizers.
 - o Do parasitic version.
 - o Last time, steve
 - When got to 20mA. Would measure all horizontal. Next cycle, all vertical. Turn off cooling in that plane, let beam blow up to a certain level and cool back down. (let it go to 2pi)
 - Have to make sure that we aren't turning off end TWTs, etc...
 - o This time we will do with stacking as above.
 - o And....have a procedure ready for if upstream beam is gone for 2 hours.

4-8GHz momentum

- o Laser transmitter failed. We have two spares.
- o Now have a unit in debuncher momentum. 30dB gain.
- o For 12K, have a replacement.
- o Yesterday, DVM changed the way we run core cooling. Good jump in stacking
- o 2-4GHz at 60W, 4-8GHz at 40W. Using stabilizing RF to diddle the core.

2) Latest stacktail intermod measurements.

-Vladimir
y:\public\temp\ST Intermods

3) Pulse evolution study/analysis status

-Mathcad land!

4) New target performance (why did TGTCHK do what it did?)

- o -program automatically moves target.
- o TGTCHK took a big step up when we put in the new target. Was 10%, but less than 1% or Tor724.
- o Suspicious about controls has changed method of sampling and writing to the datalogger.