2007-11-01 Stacking Response

Thursday, November 01, 2007
10:32 AM

November 1, 2007 Official Minutes from Steve Werkema:

1. Observations of poor Debuncher transverse cooling performance:
   - Beam width is wider on SEM806
   - Bands 3 & 4 not cooling
   - Large trunk trombone changes in band 3 & 4 produce only slight changes in heating or cooling
   - It is believed that trunk trombones and notch filters of all systems are very close to their correct values
2. Proposed beam studies:
   - Center pickups electrically with notch filter long legs off (parasitic)
   - Look at schottky signals after filters (parasitic)
   - Compare latest BTF measurements with previous (pre-shutdown) measurements
   - Perform a complete set of SNR and cooling rate measurements for all bands and sub-bands (4-8 hours reduced stacking)

Pasted from <http://www-bdnew.fnal.gov/beam-physics-studies/PbarRecBPhysMeetings/Meetings3.htm>

- Notes from meeting
  - Debuncher Cooling
    - Didn't have SEM806 sigma readback at first.
    - Beam did look wider out of the Debuncher. Emperical tuning didn't fix it.
    - Bands 3 and 4 were barely cooling.
    - Power output beam/no beam. Horizontal band 1 was only 10%?
    - Ralph
      - Is temperature cold. Yes, Jim looked.
      - Wants to characterize emittance reduction in each band.
      - Need to do one band at a time.
      - Need to look at schottky signals.
      - Should compare all 4 bands.
      - Bands 1 and 2 have not been touched.
      - Bands 3 and 4 have a new notch filters
    - Steve says
      - We should make entire suite of signal to noise ratios.
    - Ralph
      - Center tanks with notch filters off
    - Jim
      - Assume we run them as hard as possible.
    - Ralph
      - We can parasitically look for schottky signals.
    - Will do parasitic measurements today and then schedule the full suite of measurements later in the week.