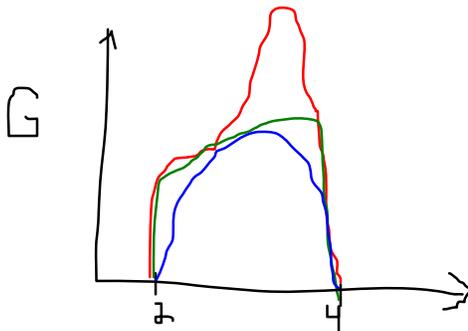


2007-03-13 System Department Heads Meeting

Tuesday, March 13, 2007
2:06 PM

- Attended: Roger, Eric α II., Ron Moore, Keith Gollwitzer, Paul Derwent, Craig Moore, Vaia, Dan Johnson, Valeri, Cons, Bruce Baller, Paul Czarapata, Salah Chaurize.
- Proton Source:
 - H- Source stable
 - LRF4 PA at the end of life
 - Booster running smoothly in terms of beam losses.
 - RF group wants to access to replace three Pas.
 - Coupling tuning of one of the Linac RF stations -
 - Get a better phase and amplitude lock.
 - Line up with a shift...MTA surveyors to layout the network. For the MTA beamline - want to do before the shutdown. During the shutdown, 5 cooling ring dipoles. 10-15 magnets.
 - 3rd harmonic vs Gamma-T
- Main Injector
 - Booster beam quality -
 - Limit of beam to NuMI - 40e12, blowing spot size on target also.
 - Studies
 - RF measurements to see how RF stations react to high intensities
 - Understand how booster run - mechanics of multibatch.
 - What we learn from the Booster -
 - Want to try multibatch in mixed mode.
 - Still have collimators in. Frequent trips.
 - Pbar asks about events taken out of the TLG...field resets?
- Pbar
 - During tev shots, pbar and proton load - lost 1st cycle after the 2B. Lose 1-2mA a day.
 - Equalizer - installed upstairs, but didn't have extra cable, had to cut cable out downstairs.
 - 4-8GHz core system - chaising 100s of psec. Ran out of room on the trombone....when back, beam piled up outside of the core....the 4-8GHz still had problems....when trombone put in in april, went in with a factor of 2 wrong I the scaling... Did turn off the 4-8 and tried running with the 2-4, didn't do a good job.
 - The equalizer is doing what is is supposed to...



- Gain profile measured with beam: Blue - current, green - new equalizer design, red - new equalizer actual.
- Will request 8 hours of studies.
- Re-established reverse protons
- Beam to accumulator - apertures smaller than would like

- Beam to accumulator - apertures smaller than would like
 - Reverse protons to debuncher - good match for 11 batch studies so far....
 - When do multibatch, watch Tevatron losses?
 - 2.2 seconds - main hold off are losses at the end of the ap2 line. 2.5mrem/hr since it is a controlled area... re-define to 5.0mrem/hr more restricts access.
 - Working on AP2 orbit brought losses down some...
 - Look at lens gradient? With 2 different intensities on target.
 - Possibly stack 1 foot of steel above debuncher injection septum....
 - Best week - previous week...2800mA for the week...146 hours of stacking (10-15 hours more than average stacking).
 - a
 - A4Q4 LQ that is dripping water - when it fails, it is a one week repair..
 - a
 - Would be hard to do mixed shots....
- Recycler
 - Don't all tests on new extraction procedure. Supposed to be both faster and a little better in terms of long emittance dilution.
 - New DCCT arrived, being prepped...want to move location . Now it is in same vacuum sector as ECOOL. Want to move it outside of this....move 10m, access to see if cables are long enough.
 - Planning to make an optics change - order of one month....beta wave - give better performance on at high stack sizes....requests to do a number of steps....
 - Pelletron down today...motor unit fan on outside of condensor unit....
 - Last summer upgraded blower for SF6 for cooling of the pelletron...if building temp over 22 degC, may have some energy drift.
- Tevatron
 - New sextupoles - 2hr blocks of studies....8 hours more of study time before try a shot...run new sext. At zero from 150 to low B....then access to flip the polarity....then start doing proton onlies to commission new supplies....
 - One store quenched on ramp...thought sit too long at 150GeV...B2Min unwind....new sextupoles don't contribute this...controls problems with time changes...restarted OAC that does this....
 - Proton intensity...keep consistent...300-330...
 - 1.7GHz schottky has been unstable during stores...Ralph tried out 4.7Ghz schottky electronics modified for the Tevatron.....
 - Crystal collimator - moved in the tunnel - could do EOS studies -
- External Beams
 - MB plates going smoothly...might finish tomorrow or Thursday.
 - Pull their run conditions?
 - Parts to repair, first part of April.
 - Crane coming Friday
 - SY120 -
 - Trouble with rates...involved safety...take first target in train and put on movable track....
 - NuMI - work on chase humidifier upsairs
 - Spare target -
 - MTA