

- Present: Roger, Ron M., Eric P, Ioanis K, Me, Vaia P, Paul D, Keith G, Valeri L, Paul C.
- Proton Source
  - LRF2 - tube problems
  - LRF2 water skid. - four pumps,
  - Little tubes in PAs are failing faster than expected.
  - Phased in 5th kicker for extraction.
  - Would like to run Booster at 9Hz before shutdown.
- Main Injector
  - Booster beam is getting better - effic remains high - more stable booster beam.
  - Trying to send beam to numi
  - Need two more measurement to run Booster 8MeV or less....
  - Concentrate on mixed mode...NuMI + pbar - will startup after shutdown in this mode. Design eff was 95% with the collimators in. Maybe be able to run without collimators at 3.3.
  - Shutdown?
    - Access helped them
    - Have a solution now -
    - Issue - even if collimator, have to move bus and water...
    - Have the work down to 10 weeks -
    - Access allowed to order long lead items.
  - Barrier bucket studies - couple of weeks studier will give summary... scheme developed as an alternative to slip stacking....beam loading is what the advantage of this system over slip stacking....maybe can be used in another machine without a lot of RF...will wrap up by may.
  - Scarecrow -
  - MRF15 trips - had a rebuilt power tube. Trips after transition and creaes tail...trips NuMI scarecrow...have to find solution if station trips in middle of the cycle, takes NuMI beam permit and aborts in the cycle.
  - MI8 collimators and MB beam?
  - Main trip is 20 pulse loss?
- Pbar
  - Testing optics today. Progress is going, slow....measuring current lattice. Will make a decision if ready to go. All the application assume a certain set of optics. Have to update applications...in a week can analyze data...ten days to two weeks... Measureing where we want to go to...settle on optics...still have to check tunes across the aperature, admittance, then the cooling needs to be worked on...
  - Heating since moved the tank has been an issue....Leg 3 heats the beam....
  - Need 2-3 hours to repeat measurement for st heating ...5-10mA.
  - Debuncher cooling hardware - minor tunnel work...some system trip off more often...need to understand this...water flow problem with TWTs?
  - Delta kickers (transverse heating)...50% of electrical center of kickers on freq. Have some optimizm that it will work....narrow pass filter, filter out inappropriate freq....need to do measurements....do not have reliable data yet...
  - Work with beam steering in AP2....2 periods recently when losses went up, another where losses went down...about the same time as good quality beam from Booster....
  - Last disk of target...with beam sweeping, get an extra week....
  - Gradient on Li Lens on the back burner for now.
  - 2.2 second - donn't want to mix it in with all the other stuff.
  - ARF4 is ready to go again....but since doing lattice today, will wait until tomorrow....100A fuse, but wall breaker was 80A. Did find a problem with the tube....that is why it would run for 20 minutes and then fail on about ht e4th transfers
- RR

- Operatonally doing fine
- Having a problem with transverse stoch. Cooling....phase vs intensity...pin attenuators have phase changes as change attenuation - 40ps at 10dB.....max signal to noise across light link....decided to buy new ones...will take 12 weeks....will be replaced in the shutdown...
- Install 28 quads to expand phase trombone....that soln would not work, since would overlap with equip in RR....now looking for a soln with a smaller number of quads....may 21st is the decision deadline...
- Compuond bucket studies...building a more complicated RF structure so that can separate cold mom beam with hot mom beam.....can use higher gain SC on hot beam and not cold beam to cool faster....this is geared toward being ready to accept transfers more rapidly.
- Can move daily plots off desktop onto a server.
- Doing well with stashes.....
- Tevatron
  - Sextupole studies...
  - Crystal collimator studies...ready to go, but awaiting 2nd floor discussion.
  - Long pbar instabilities as of late. Investigating. Trying to understand why? Mode 1 instability? Do have mode 1 dampers for protons....can we implement mode 1 dampers for pbars? Bunch length blowups at flatop....one 1.4 to 1.7 nsec on one store...
  - Pbar only studies - for 2nd order chromaticity....identify optics on pbar helix without separator polarity switching...1 transfer, 4 bunches... could double up....with other measurements TFM for mode 1 dampers for pbars...
  - Proton scraping at 150GeV. To attack high losses at D0 on the squeeze. During shot setup...
  - B3 power supply...have to fix C49 files...
- Shutdown - coordinators?