

ATF feedback setup plan

Pre-shift

1. Connect 3 BPMs in Eels bedroom to the output of cables 1 & 4 (these will be used for signals from FB BPM).
2. Set up scopes, power phase shifters etc.
3. Test kicker amplifier (this can be done in Eels bedroom).
4. Locate and check clocks and triggers.
5. Test outputs of digital board.

1st shift

1. Set up digital board (tunnel or Eels bedroom?)
2. Set up kicker amplifier? (assuming best case scenario it might be a good idea to see if we can fire the kicker even without any aim to do feedback – if we have time for this tunnel access will take up at least 20min – ½ hour of shift time).
3. Set beam to 3 bunch mode and load optics used in April (see Elog for filename).
4.
 - Check quality of beam (bunch spacing, charge & orbit).
 - Perform calibration & resolution runs with all 4 processors on BPM 11 (with FB processor in digital board).
 - Fast data analysis of BPM data to look for any ambiguity (turnover = 20min).
5.
 - Find bunches etc with digital DAQ.

Steps 4&5 may be done simultaneously with Ben performing digital checks and Rob and Christina concentrating on analogue work.

A modified checklist to reflect the specific setup for this shift will be posted on the Elog today.