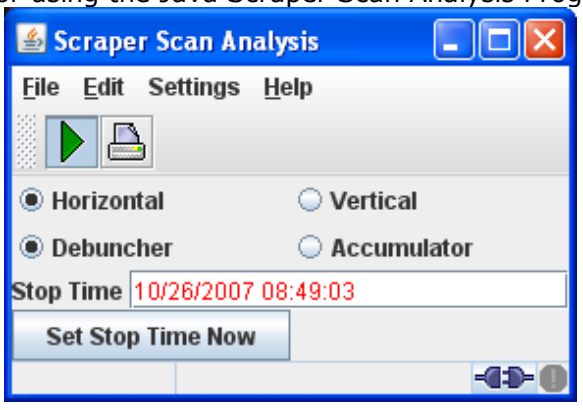
2007-10-25 Reverse Protons Notes

Friday, October 26, 2007
8:13 AM

- Accumulator Admittance measurements
- Notes about moving collimators
  - LJ can be moved -8500s to edge of central orbit.
  - 100s = 1mm
  - 2000s per box on SA
  - 2 revolutions of knob per box on SA
- Admittance:
  - $$A = \frac{x^2}{\beta_x}$$
- Setup SA4 to look at Debuncher Longitudinal
  - CF = 127*590018Hz = 74.932286 GHz
  - Span = 30Khz
  - Free run and Cont.
  - 10dB/div
- Beam was spread out over 7.5 boxes (more than normal).
  - $$\frac{\Delta p}{p} = \frac{Width(Hz)}{CF(Hz)*\eta}$$
  - The width was 7.5 boxes, so 0.75*Span (Hz) = 30,000Hz*0.75
  - Eta= 0.006
  - $$\frac{\Delta p}{p} = \frac{30,000(Hz)*0.75}{74,932,297(Hz)*0.06} = 0.05 = 5\%$$
- Debuncher BPMs
  - Special Procedure if 60 BPMs are not responding.
    - P57 DEB <25>
    - Turn off D:BPD6T5
    - Send a reset to D:BPMTC6
    - Send an ON to D:BPMTC6 (even if it shows on).
  - D:BPMAD2 (dB) is the BPM intensity. Data is good if > 70dB.
- Hints for using the Java Scraper Scan Analysis Program
  - 

  - When scrape is complete, click on "Set stop time now" and then run app.