ECC 31/8/2017

- Agenda:
- Approval of minutes
- Recent beam progress — T.Eriksson
- RF progress, issues & priorities — M.Jaussi
- Beam profile measurements — P.Grandemange
- E-cooler magnetic measurements — G.Tranquille
- AOB

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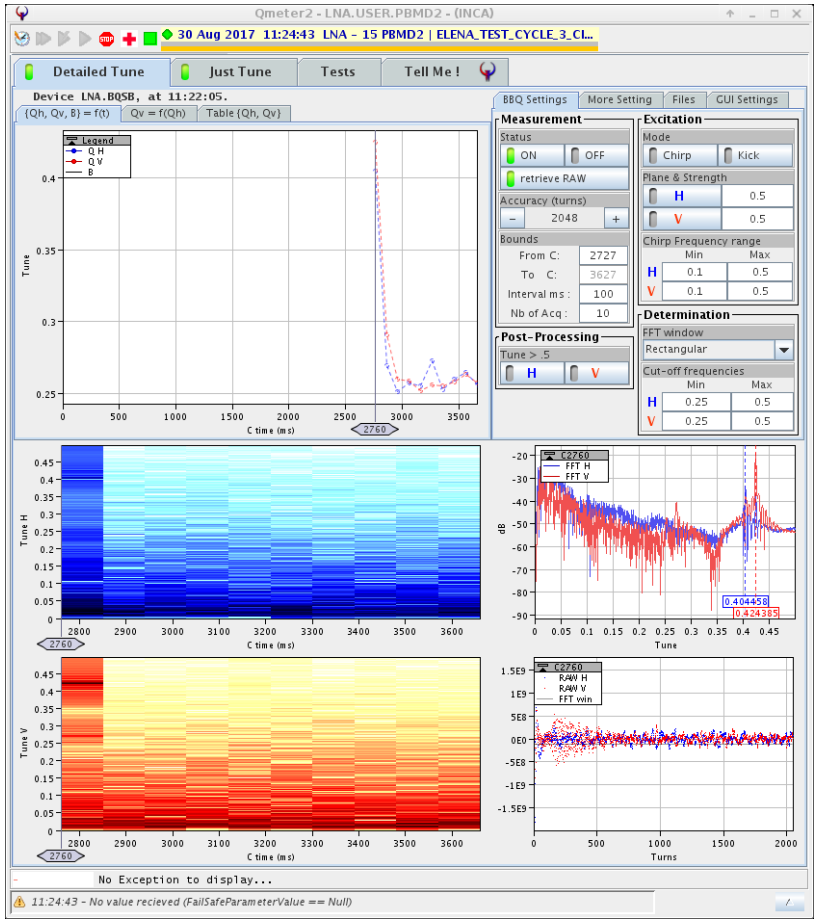
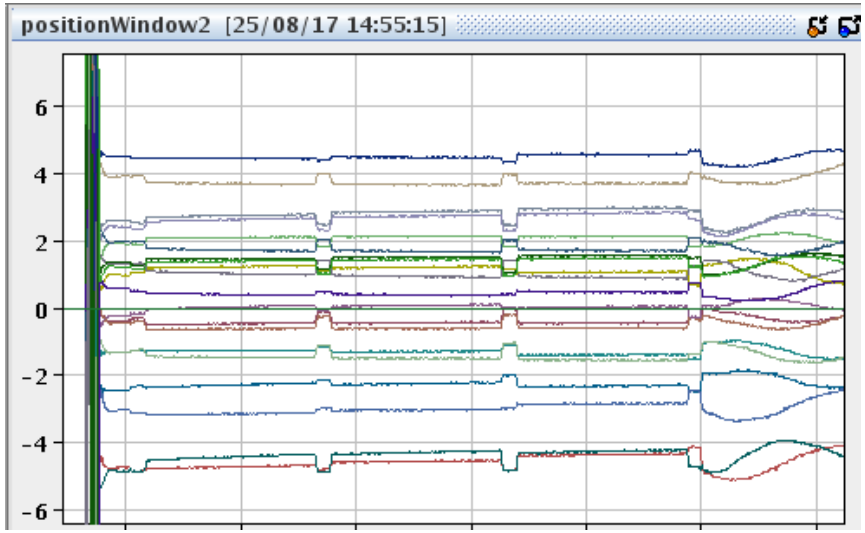
- **Recent activities:**
- Pbar shifts mainly used for RF and scraper system commissioning
- 2 days for survey system measurements
- B-train calibration
- BBQ tune measurements
  - Pbars at 5.3 MeV, no excitation
  - Verified by change of tune settings



Issues

- Bpm signals have jumps spaced by ~ 160 ms.
- 2kHz occasional freq. offset at 5.3 MeV. Seems ok after B-tran high marker timing adjustment
- H- trajectory and injection not reproducible…..
- H- not very useful for beam commissioning for the moment



ELENA Beam Commissioning – next steps

- **Consolidation of injection line and injection into ring**
  - Improved reproducibility of injection – efficiency should be increased (H-)
  - Further studies to understand and empirically improve line and injection
- **First 85 keV beam (H^- and/or protons) for GBAR**
  - Requires profile monitors – 2 out of 3 installed. No readout electronics yet…
  - Setting up of RF synchro for Gbar H- ejection
- **Pbar xfer from AD**
  - Set-up RF synchro
- **(Acceleration) Deceleration**
  - Setting up of LL RF; phase and radial loops
  - LPU signal quality vs. phase/radial loops
- **Setting up of antiproton cycle**
  - Requires electron cooler to be available and installed
- **Commissioning of instrumentation and understanding machine at low energy**
  - Orbit system – consolidate orbit correction (some corrections done successfully) and orbit response studies
  - Tomoscope – observe bunching & independent intensity estimate)
  - Tune (measurement and) corrections