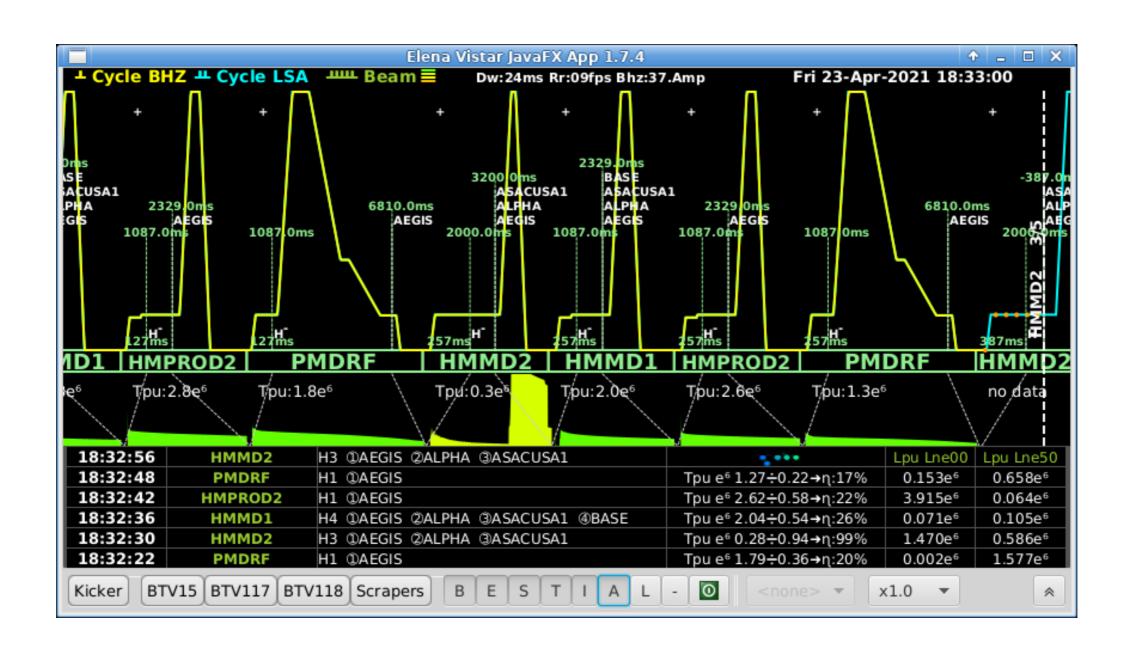




ELENA commissioning status





Highlight of last week



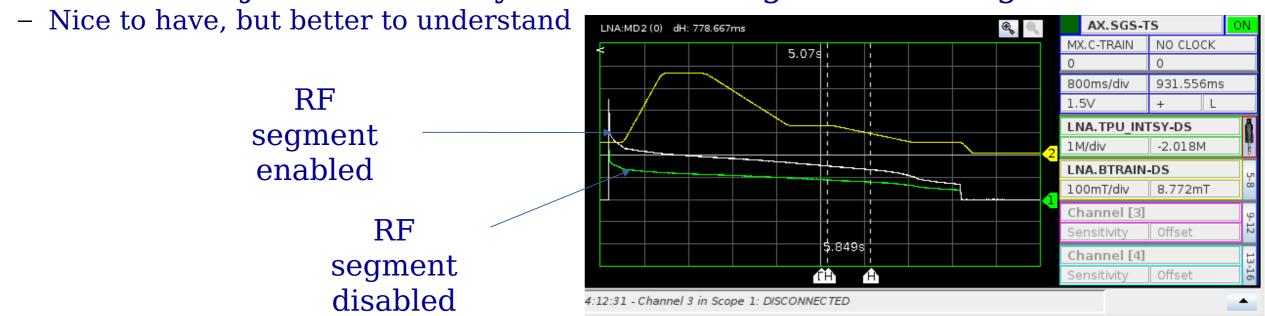
- Test of Multi RF-segment functionality:
 - Mandatory for pbars operation:
 - Injection on h=1, debunching for e-cooling and rebunching on h=4 for extraction
 - Spent couple of days to set-up the cycles for RF observation/measurement/setting-up
 - Found and fixed couple of bugs
 - Remains stability problem to close the servoloop
 - LLRF experts still working on it
- The mechanics is (almost) there, clean-up of settings to be done
- We have now a full zoo of cycles with different multisegments configuration:
 - Need to merge all the knowledge in the future operational cycle



Some observations

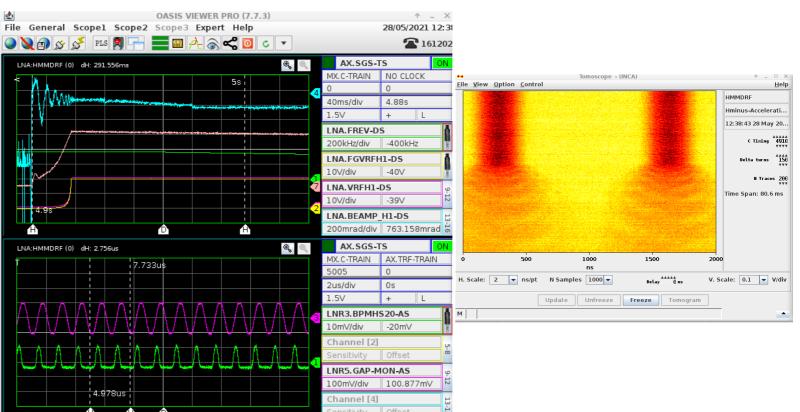


Much more injected intensity when enabling multi RF segments



Changing frequency offset to solve instability issues on HMMDRF







Beam Commissioning status



- Problem to measure electron beam orbit on intermediate plateau
 - Saturation of BPM suspected?
 - More tests performed on Thursday morning
- Test of automatic injection setting up algorithm developed for LINAC4
 - □Variation of correctors and quadrupoles
 - □Optimization of intensities (on pick-up at first turn)
 - □Beam time given in the evenings



Couple of issues



- Problem with FGC 93:
 - electrostatic correctors in transfer line regularly tripping
 - New version to ease remote restart deployed last week, working but still have to restart the devices once or twice per day!
 - Problem reported to ISEG
- Several trips of source HV:
 - 2-3 times per day form Thursday
 - Lost vacuum gauge on Friday evening: were the trips a pre-warning?
 - Repair (with a hammer!) on-going while waiting for the spare gague to be ordered

- •To keep in mind:
 - Status of the measured B-train → we are working with synthetic Btrain for all cycles

Tentative Program for This Week







Week coordinator: Christian Operators: See op-webtools

	Main activities
Monday	Source repairNew LLRF software release
Tuesday	 Ring MD Electron beam orbit adjustement
Wednesday	 Machine in access whole day: Upgrade of vacuum software Start LNE02 bake-out (no extraction in LNE-02 and LNE04 for 1 week)
Thursday	• Ring MD
	Beam based alignement tests
Friday	• Ring MD
	Beam based alignement tests

Note: opening of LNS/LNI vacuum sector for profile monitors exchange planned for next week: no Hminus beam from 7^{th} of June for ~ 2 weeks