

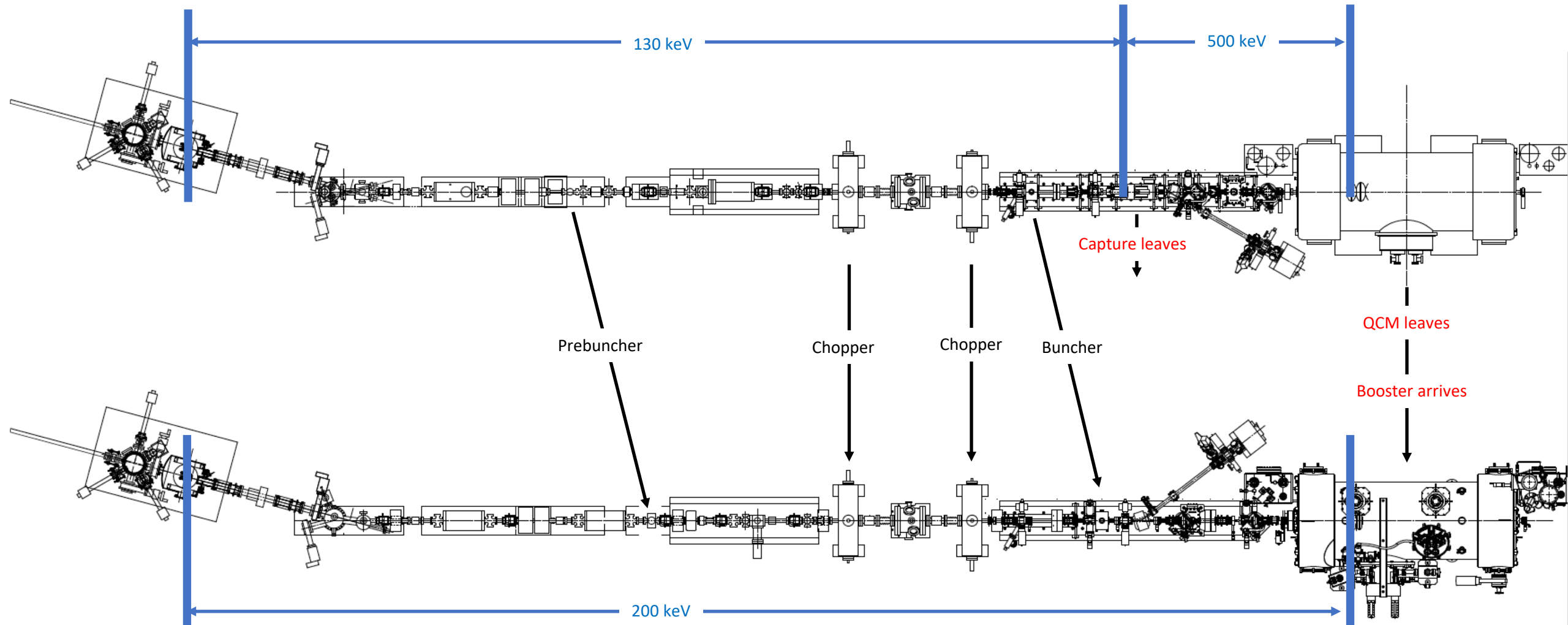
# AIPINJ – Booster Install Kickoff

injector upgrade related things:

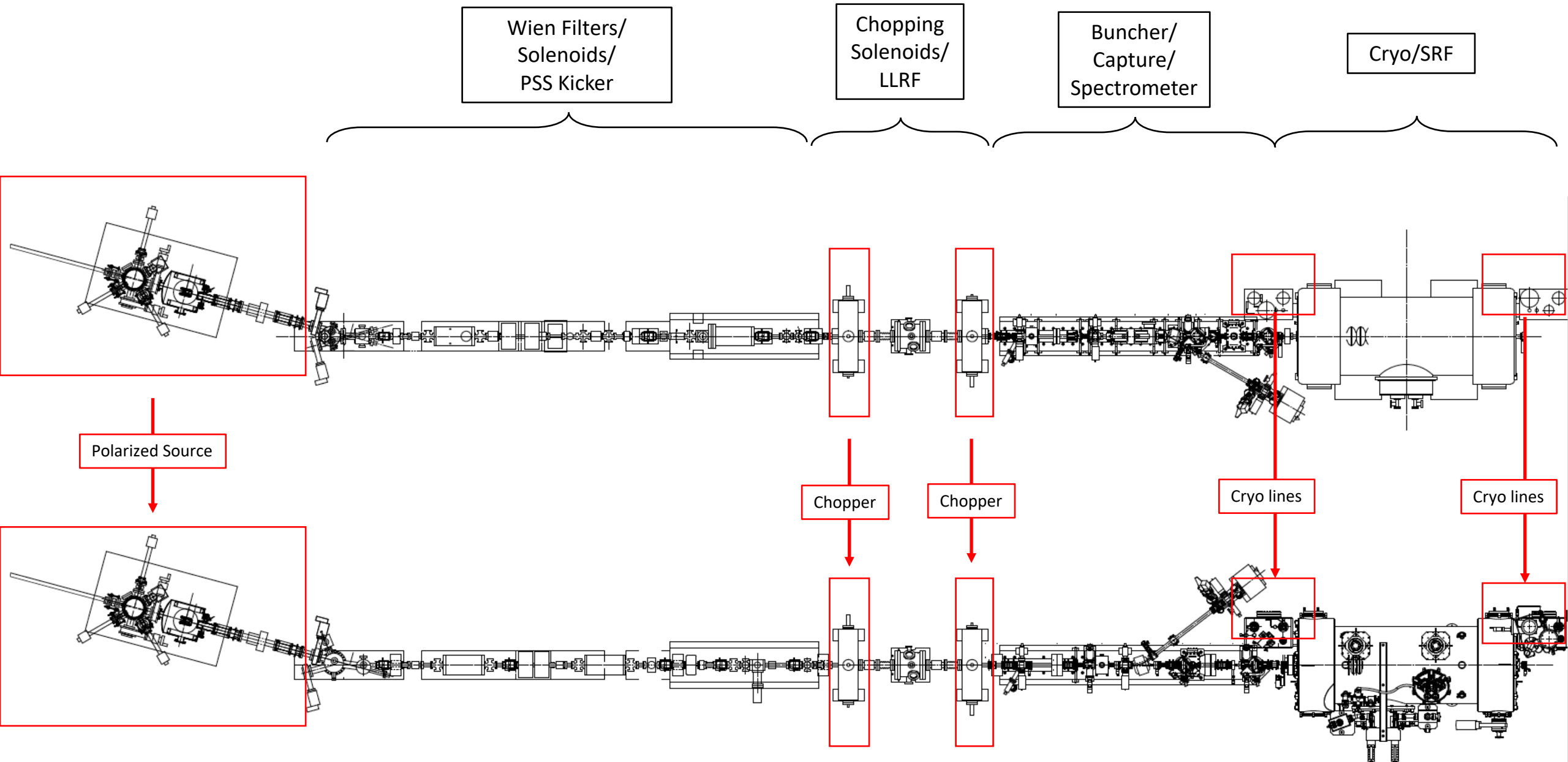
[wiki.jlab.org/ciswiki/index.php/CEBAF\\_Injector\\_Upgrade](http://wiki.jlab.org/ciswiki/index.php/CEBAF_Injector_Upgrade)

## BIG PICTURE

The gun voltage is increased to 200kV.  
The **SRF Booster** replaces the combination of **Capture + SRF QCM**.  
The prebuncher, chopper and buncher cavities remain, but now act on 200 keV beam (not 130 keV beam).  
CEBAF QCM output energy is optimized for 6.3 MeV; Booster output energy being tested @ UITF, may be closer to 7-9 MeV.

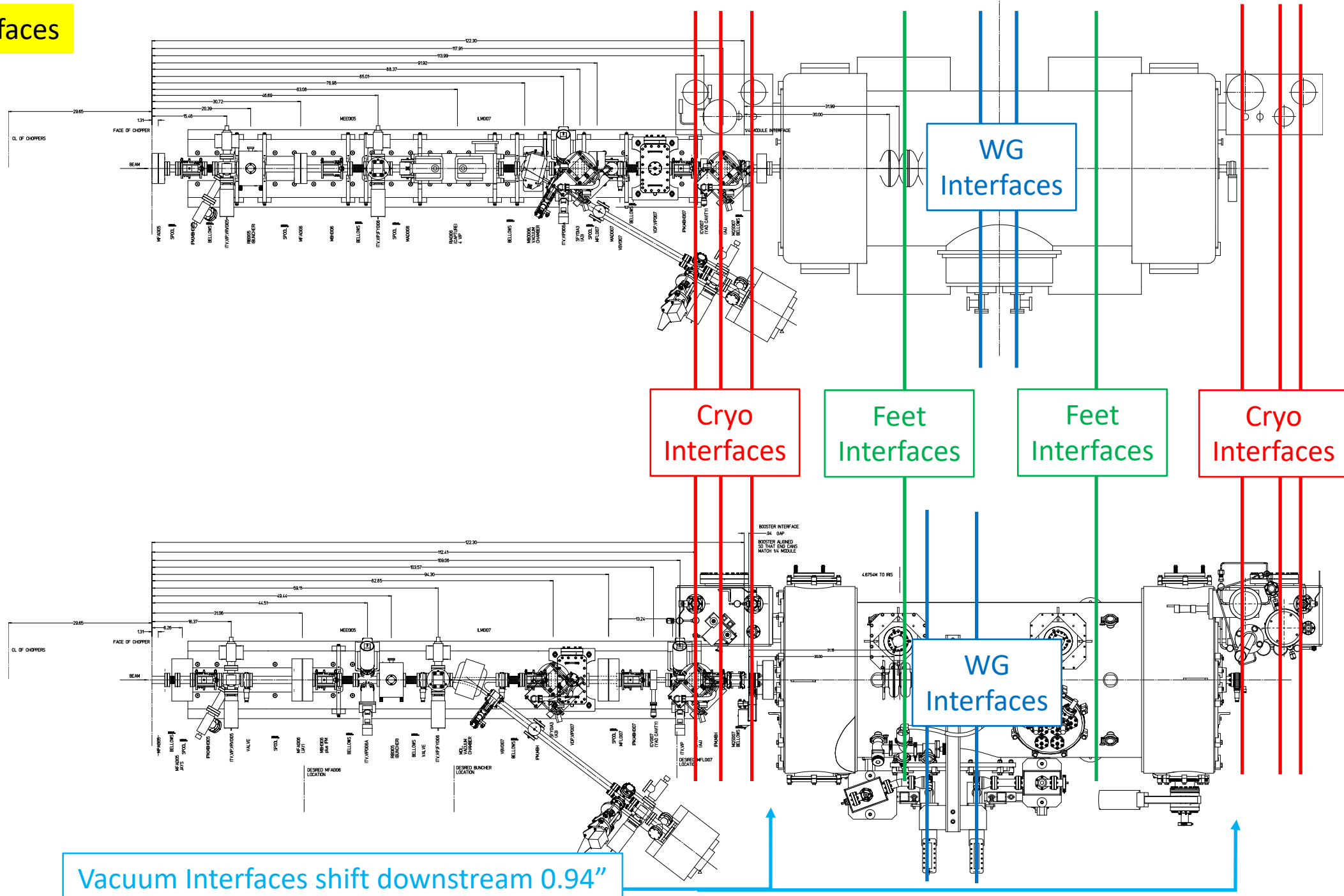


Items in red boxes remain as-is...pretty much everything else is reworked or replaced.

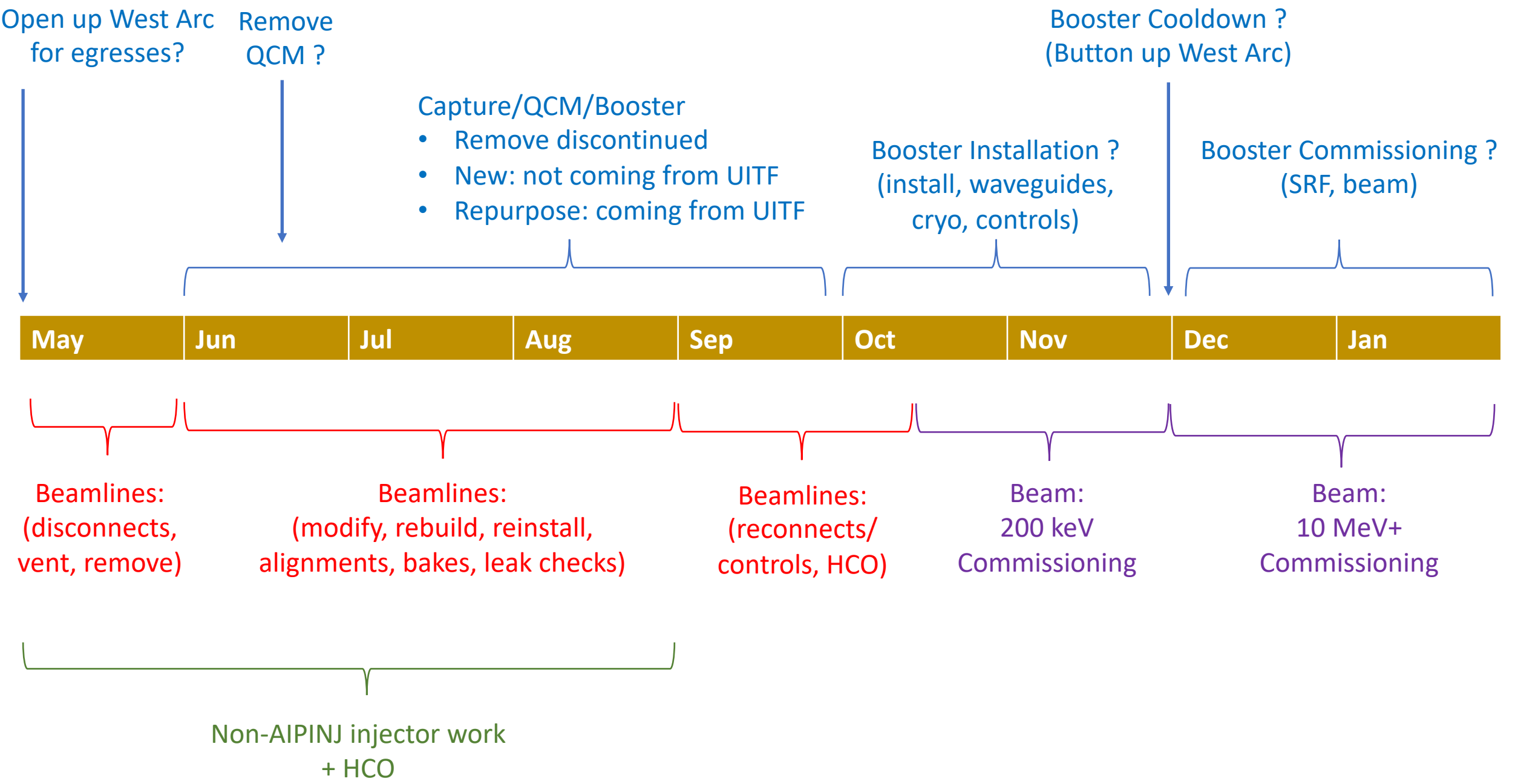




## Interfaces



Preliminary stab at a schedule...



- Installation (handling, egress, vacuum, clean-rooms, alignment, interfaces)
- Cryo (u-tube, plumbing, controls, screens, software)
- High Power RF (HV, klystrons, controllers, waveguide, cables, screens, software)
- LLRF (digital RFCM, tuners, cables, screens, software)
- I&C (vacuum, interlocks, controls, cables, screens, software)
- Coordination (scope of work, labor, procurements/fabrication, schedule)
- Safety (different groups, electrical jobs, cryogenics, high power, unique stuff)



