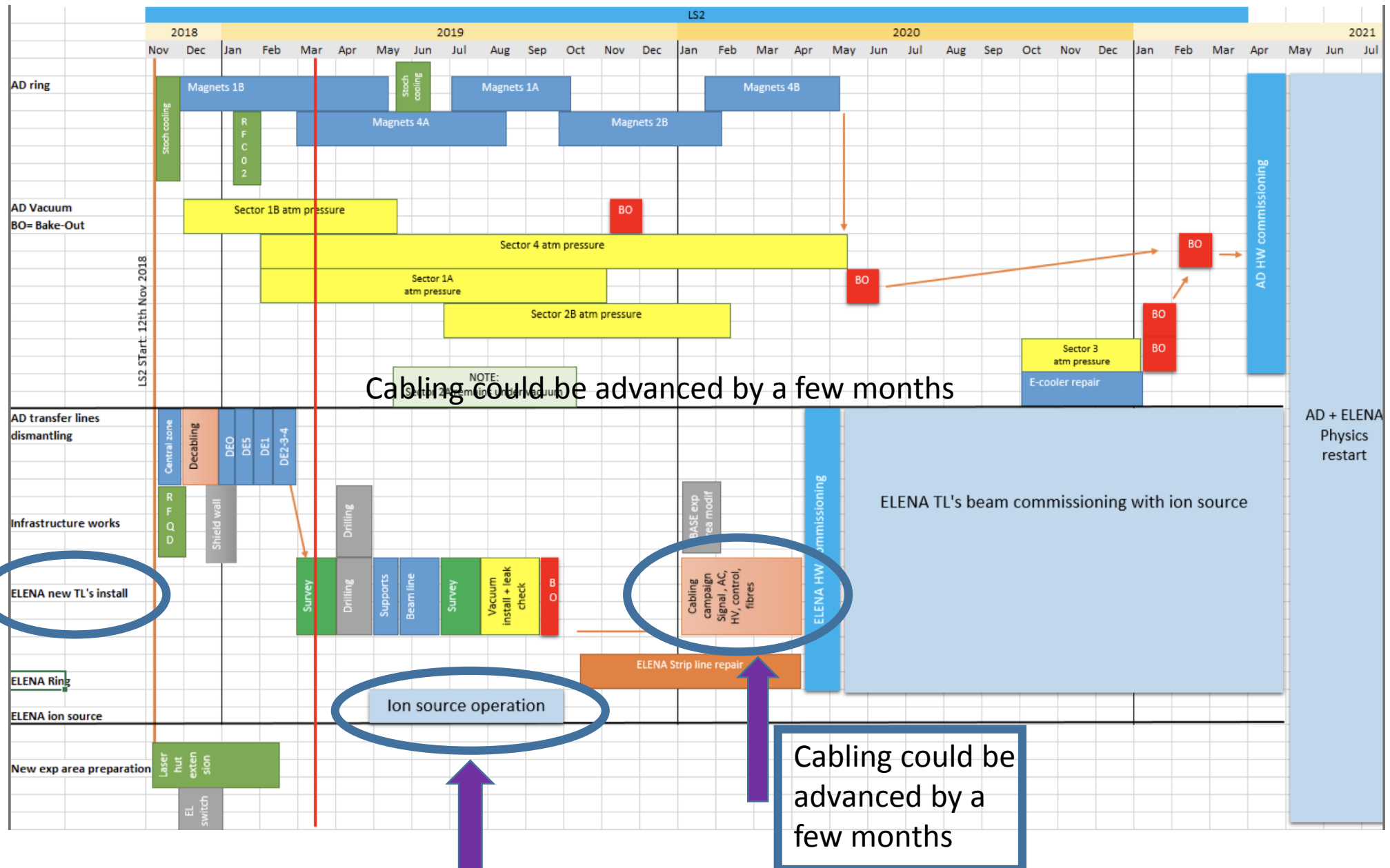


Plan for ELENA commissioning
with ions in 2019

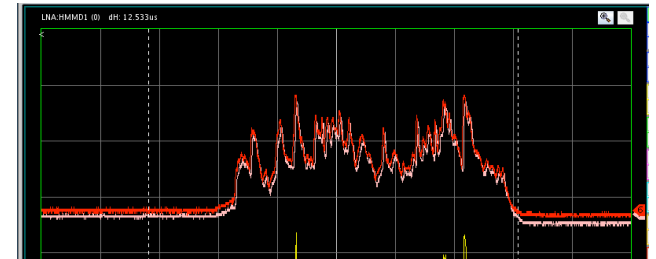
AD & ELENA LS2 activities



Ion source re-start after update

- Prepare for commissioning of new beam lines in 2020 -

- **HV-tests of new, upgraded isolation transformer**, can we operate the Ion source reliably at 100 keV ?
- **Beam quality improvements:**
 - Can we increase intensity ? (= more comfortable ej. line set-up)
 - Can we improve longitudinal structure of the beam ?
 - Investigate observed intensity fluctuations over several cycles
 - Drifts/instabilities.....
- **Matching studies** Source=>ELENA, continue tests with new optics
 - Only (one) BTV available at the moment...
- **Improve injection efficiency**
 - Can we inject more beam ?
- SEM tests (injection/ GBAR line)
- With RF (safety issue to be resolved): cooling tests, transverse optics, longitudinal...
- Also: GBAR interested in H⁻ beams in 2019



Planning

- The commissioning team will be on duty in the ACR during office hours from June to September
- Monday morning briefings will be held when required

Systems

- Control system
- SW – BRS etc.
- Vacuum
- Power converters
- Magnets
- HV deflectors
- Injection Septum/kicker
- BPM:s
- RF/Tomoscope
- Safety/interlocks
- Etc.