

Week 44 (October 31 - November 4): preparing electrons, laser and diagnostics for the run

- Electrons:

- Measured quantum efficiency of electron gun cathode. Cathode is still performing well
- Measured electron bunch length on upstream streak camera for different electron gun configurations
- Defined reference setups for electrons at low and high charge

- Laser:

- Propagated electron on main line and virtual line
- Included new BTV digital cameras in alignment tools
- Completed commissioning of new device protection interlock
- Aligned marker laser in space and time on upstream streak camera
- Work on improving signal/noise contrast (to be continued)

Plan for week 45:

- Preparation: visit from laser manufacturer to resolve signal/noise issue, align laser virtual line, warm up Rb and align Rb diagnostic.
- Run (Saturday/Sunday): proton beam characterization with all diagnostics, proton beam position scan, start physics!

- Giovanni Zevi Della Porta