Parity beam line work 9/21 update

* Hall A beam modulation system

 Air core coils in multiple positions along the beam line to tweak the beam

* Electronics hardware, coils and software are still installed and functional. Thanks Pete Francis, Simon Wood, Jay and Bob.



* Beam charge monitoring

2 XYQ cavities and their enclosures located on the aluminum girder upstream of the target.

* XYQ cavities near the target are installed and are equipped with new electronics and temperature controls.
* Install new XYQ cavity
* Cavity assembly has been installed between the two existing cavities on the aluminum girder upstream of the target.
* Supporting cables are being installed but controls for this cavity assembly have not been installed at this time.
* Install temperature controls.
* Run 3 signal cables and one control cable to Hall A counting house. Done
* Still needs to be aligned
* Still needs leak check



* Qweak halo monitor
* Installed and aligned
* Cables for controls are installed and operational Thanks Tony Dela Cruz.
* Detectors need cables and controls. Need specs on cables for procurement
* Will use old mounts for actuator and detector as much as possible.
* Still needs new target
* Still needs alignment
* still needs leak check

  

* Cryogenic Moller Polarimeter

This is a new self-contained cryogenic magnet. It has been tested and set up Ethan and Javier.

* **The rest of this is on hold for operational Hold for operational Cryogenic Moller Polarimeter Magnet is currently in magnet test being mapped**
* Disassemble old Moller target.
* Remove upstream girder
* Install new support
* Re-install upstream girder
* Install new Moller Polarimeter
* Align magnet
* Rout and connect magnet and target power and controls
* In place operational checkout of mechanism
* Close up beam line and leak check
* Align target
* Cool down and operational checkout of magnet in place
* Raster.
* Existing tubes have been removed and installed in Hall C
* New tubes need to be coated in September/ October and installed
* If problems arise with ceramic tubes we have a SS tube to install in the interim/
* Coils need to be reinstalled and tested
* Will need leak check
* Will need to be aligned