

April 10-16 – Prep beam tests for coming weeks...

- Wed – Lock-up, check for 1mA to FC1 w/ choppers OFF
- Thu – PQB check : Hall A @ 499 MHz for 100uA to FC1
- **DBR 75105**: mount to puck, load in Docking station
- **#11: 1146-4: GaAsSb/AlGaAsP**: blow off arsenic cap?

April 17-23 – Studies of position differences vs. laser size at Pockels cell w/ GaAs/GaAsP

- Mon-Wed – Laser room work and INJ=BP on Day/Swing for beam to FC1
- Thu-Fri – Laser room work and INJ/NL=BP on Day/Swing for beam to FC2
- **DBR 75104/75105**: bake Docking+Suitcase, load to Suitcase

April 24-30 – Baseline GaAs/GaAsP in Gun2

- Mon: Heat/activate GaAs/GaAsP
- Tue-Wed: Characterize – Measure (QE, SCL, Pol, AP) vs. Charge at high current
- Thu: Activate 1146-4: GaAsSb/AlGaAsP, and if not successful return to GaAs/GaAsP
- Fri: Measure QE and Pol, plan to use for next week's test

May 1-7 – Radio-isotope measurement 18.5 MeV @ 50uA to 4D (1146-4: GaAsSb/AlGaAsP)

- Mon – setup beam and calibrate new diagnostics
- Tue – Open for installation
- Wed-Sat – Radiate Ga target
- Sun – while tunnel locked up, Measure 1146-4: GaAsSb/AlGaAsP QE and Pol

May 8-14 – PSS Certification (HVPS locked out)

- Mon – Fri : Lockups on Swing shift
- Gun2 photocathode swap: Remove: Bad-DBR, GaAsSb?); Add: DBR (75104?), 75105
- Replace Gun3 w/ vacuum diagnostics + bake

May 15-21 – PSS Certification (HVPS locked out)

- Mon-Fri : Lock-up on Swing shift

May 22-28 – Test DBR 75105

- Mon: Heat/activate DBR
- Tue-Thu: Characterize – QE vs. lambda?, beam polarization, charge lifetime
- Fri: Test gun HV to 150kV?

June/July – Ear-marked for 200kV installation and beam testing

July 31 – Aug 4 – TBD

- Injector HCO/Restore to FC2 ?

Aug 7-18 – Bubble Chamber engineering run

Aug 21 – Sep 1 – PSS Certification

CEBAF tasks 2017 SAD

- 4 laser
- install new tune mode generators
- UVa Pockels cell studies: laser beam size and/or RTP cell
- 4K ops for isotope production
- Activate the GaAsSb photocathode and use during the isotope run to get lifetime for free?
- How good is today's CEBAF gun?
 - 130kV lifetime study, try to make mA or more. GaAs/GaAsP with and without DBR (suitcase swap, pull the GaAsSb and bad DBR photocathodes, install the good DBR and the 92% polarization photocathode)
 - Bring gun to 150kV?

- Kicker test
- Resonant polarimeter test, installed in 500kV spectrometer line
- Install new 200kV gun, operate it at 200kV, evaluate performance, plus test magnets, chopper and other things that might need to be upgraded
- 5 MeV Mott, three energies
- Bubble Chamber