

## Source Status & Planning through Summer 2015 SAD

### October 2014

- Glassman 150kV/10mA overcurrent faults => swap to spare OK, ATLIS to test “original”
- Digital gain switch circuit removed (sensitive to HV faults)
- First CW beam and photons for Hall D (using Hall C laser)
- Hall D PSS faults dropping gun => procedure may rectify
- QE good  $\sim 0.5\%$ , but lifetime poor  $< 3C$  => need more charge

### November 2014 (~Joe PD)

- 3-hall running (A=4, B=1, C=off, D=5.5)
- Commission 2<sup>nd</sup>/3<sup>rd</sup> pass separation
- Thanksgiving down => November 26<sup>th</sup>

### December 2014 (~Matt PD)

- Restore from down => December 1<sup>st</sup>
- 3-hall running (A=4, B=1, C=off, D=5.5)
- Commission 2<sup>nd</sup>/3<sup>rd</sup> pass separation
- 2 months for “6 work week” Winter SAD starts => December 22<sup>nd</sup>

### February 2015

- Restore from down => February 13<sup>th</sup>
- Commission 5<sup>th</sup> pass to Halls A&D => February 27<sup>th</sup>

### March 2015

- Three halls setup (A=5, B=1, C=off, D=5.5) => March 27<sup>th</sup>
- Physics until (A=3 or 5, B=1, C=off, D=5.5) SAD => June 11<sup>th</sup> (funding contingent)

## “6 Work Week” Winter SAD (Dec. 22 – Feb. 13)

- **Laser upgrade**
  - Schedule, requirements and RF cavities
  - Laser plan
  - Controls plan
  - Mott reference
  - Beam studies
- **Brock cavity**
  - Parts Status
  - Pre-work: ME updates, S&A A1/Cavity, PSS kicker discussion
  - Installation/bake out
  - Controls/Scope
  - Commissioning
- **Bubble chamber**
  - High level schedule for engineering and final runs
  - Bubble chamber review & installation
  - Laser interface
- **Gun High Voltage**
  - Install hot spare
  - Software/Higgins modify HVPS ramp
  - Status of new FSD window comparator

Submit ATLAS tasks this week to help with planning ... update details later

- Brock cavity

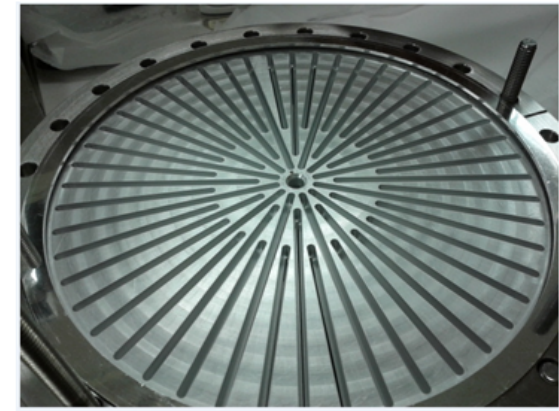
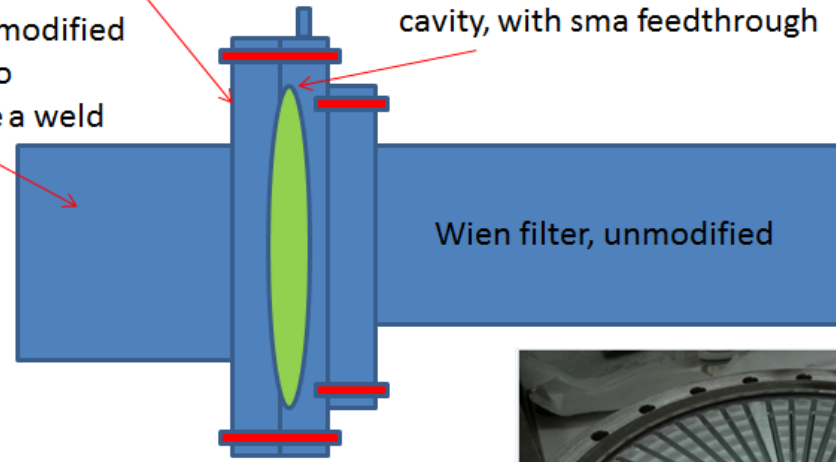
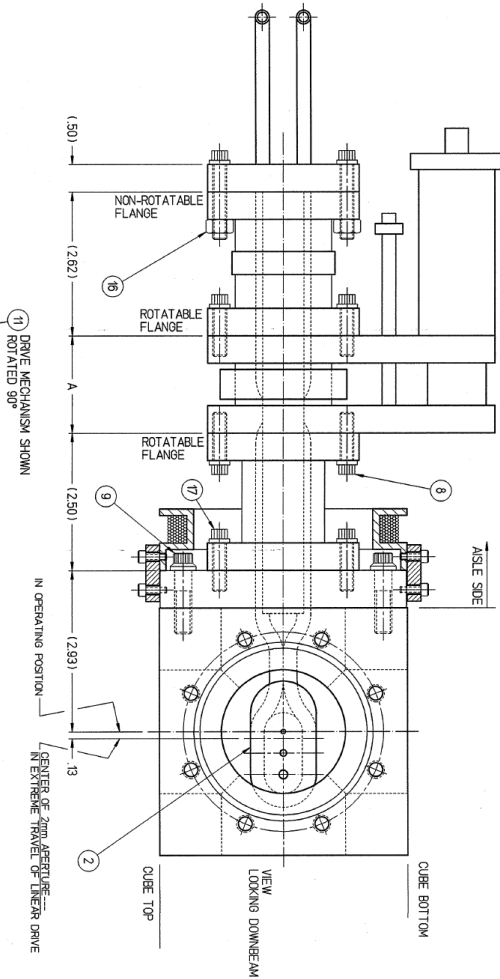
- Parts Status
- Pre-work: ME updates, S&A A1/Cavity, PSS kicker discussion
- Installation/bake out
- Controls/scope
- Commissioning

10" to 4.5" reducer, hogged-out, modified and welded to 4.5" cube

10" to 8" reducer, hogged-out, modified to support the Brock cavity, with sma feedthrough

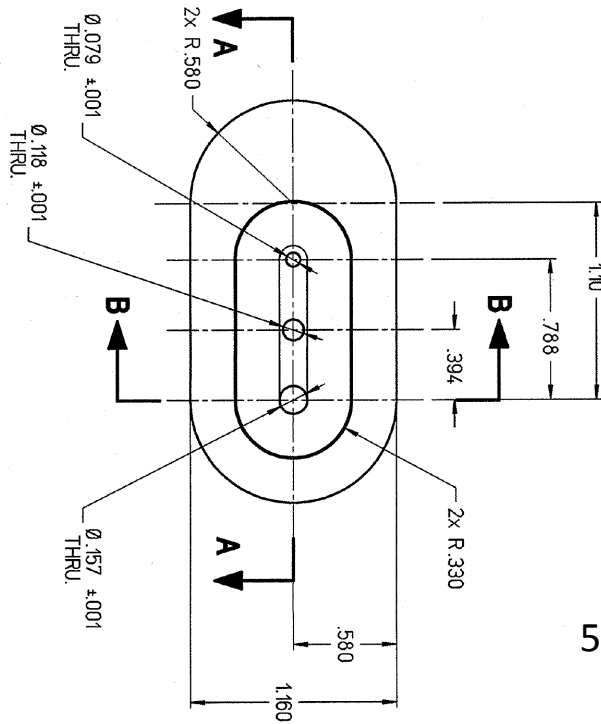
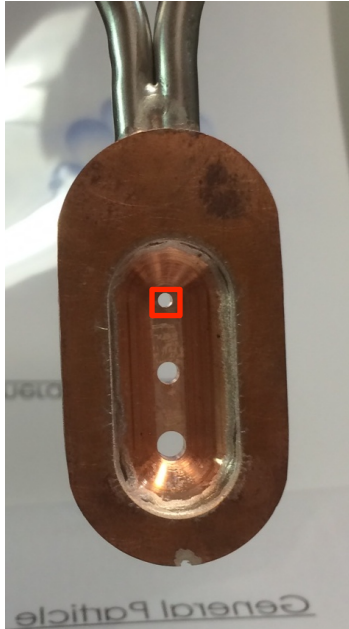
4.5" CF cube, modified on one face, to accommodate a weld

Wien filter, unmodified



Images show spare A1 aperture w/ the 2mm, 3mm, 4mm through holes. Beam goes into left image and exits right image. The apertures are spaced 10mm apart on center.

I'd like to modify to be a 4mm square aperture so beam can be scanned across straight edge aperture to measure transverse profile, and at high current.



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