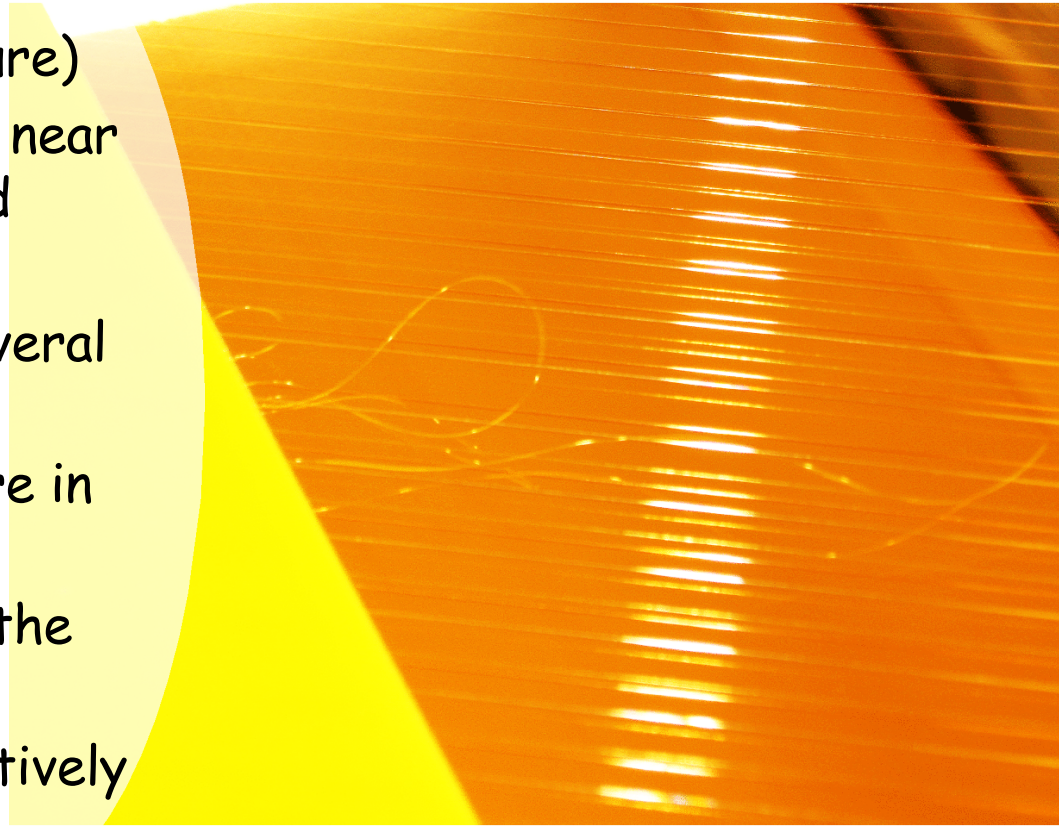


MWDC Repairs

- Both chambers (1 and 3) were repaired in October
 - ➔ Repairs went pretty smoothly once we got rolling
 - ➔ roughly 1 week turnaround per chamber repair
 - ↳ 1 day moving chamber on each end
 - ↳ 2-3 days of repair/testing
- Chamber 1 had a broken wire (see picture)
 - ➔ There was some scoring of the glue near that wire (glue ball had been shaved down during initial construction).
- Chamber 3 had one broken wire and several sagging wires.
 - ➔ nothing unique about the broken wire in this chamber.
 - ➔ 1 wire was sagging enough to short the planes after we made the first fix.
 - ➔ 3 other suspect wires were preemptively replaced.

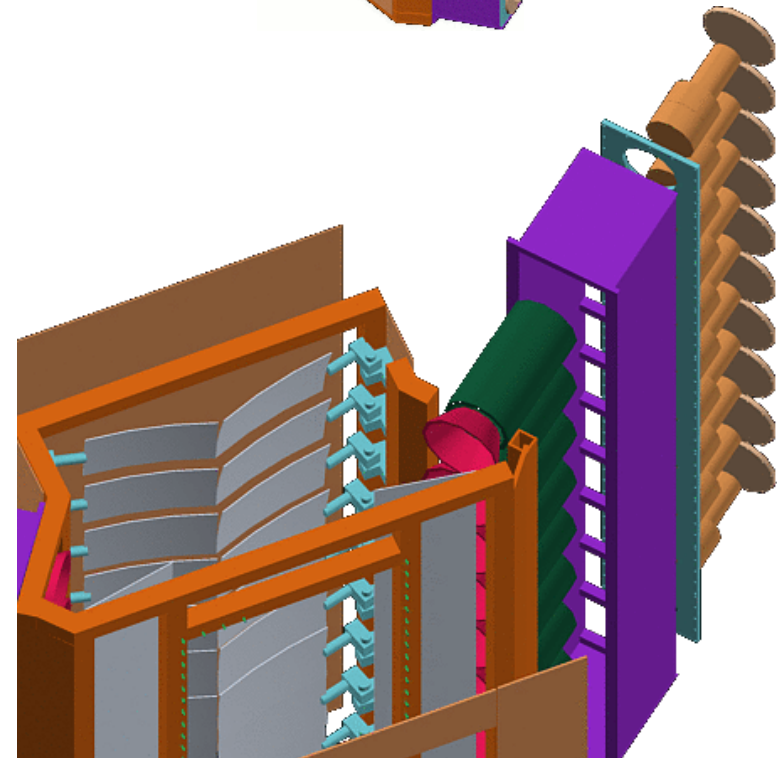
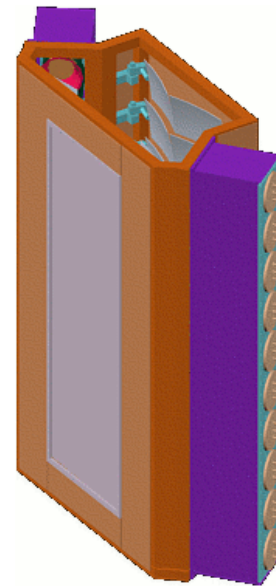


MWDC Repairs

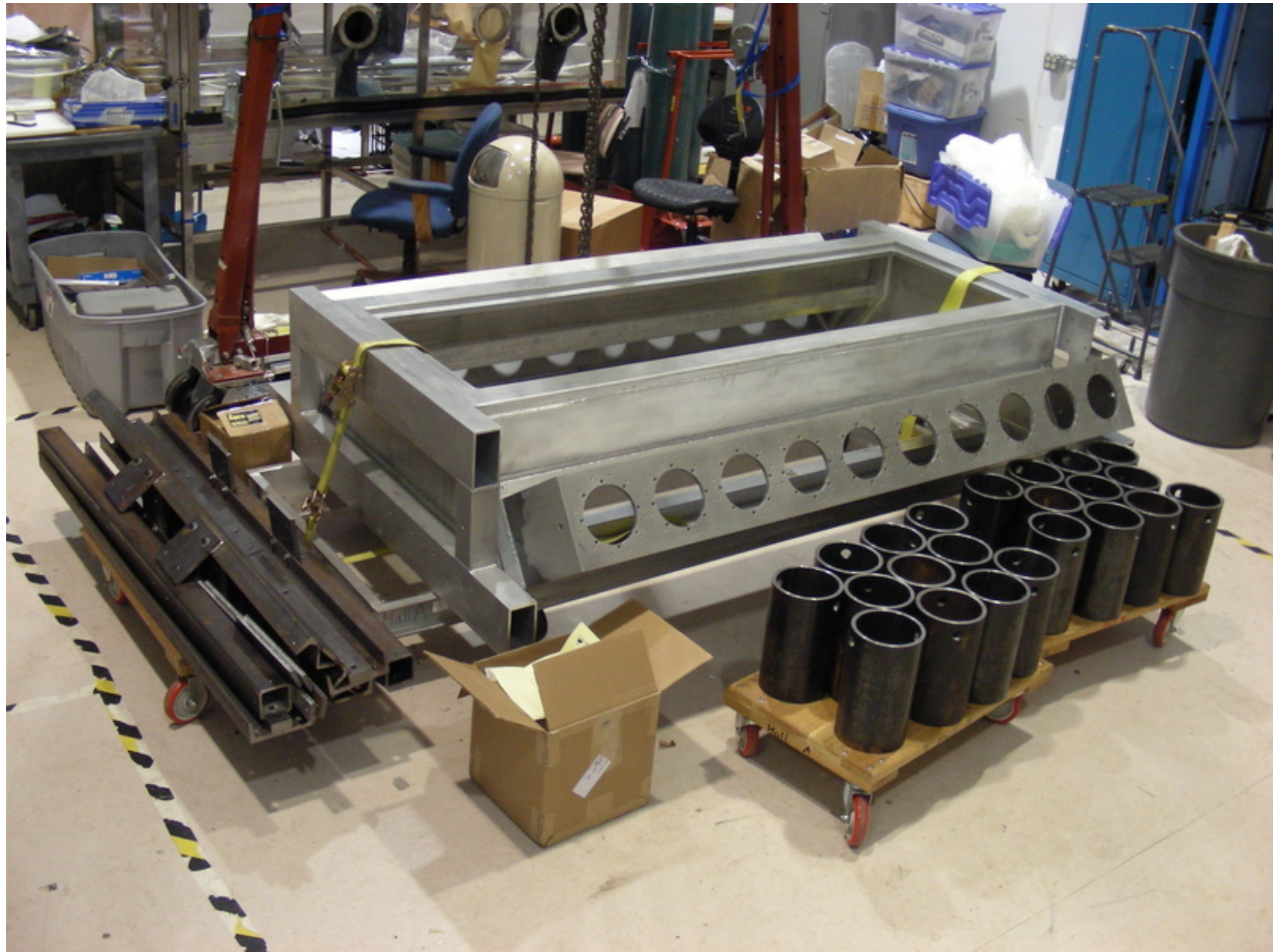
- The integrity of all wires on both chambers were tested by looking at cosmic signals on an oscilloscope prior to moving the chambers back to TestLab.
 - ➔ Chamber 1 checked out with no problems.
 - ➔ Chamber 3 has one dead wire (#11 on connector X13)
 - ↳ 2—3 cm from one edge of the X-plane
 - ↳ elected to not re-open the chamber for this one wire
 - ↳ this will have a negligible effect on the chamber acceptance/efficiency
- Both chambers back in the Electron stack in Testlab
 - ➔ Both chambers now hooked up to the DAQ for testing
 - ↳ chamber 1 looks good (I think?)
 - ↳ chamber 3 still needs to be tested
 - ➔ More during Xin's talk...
- We (the 'Big Family' group of experiments will maintain the clean-room space for the next year as an on-site repair station.

Cerenkov Status

- Tank parts arrived at JLab at the beginning of December.
 - ➔ Initial assembly has begun in EEL/124
 - ➔ Mirror mounts still in fabrication.
- Mirror update:
 - ➔ Flat mirrors coated and on-site
 - ➔ Spherical mirrors coated and on-site
 - ↪ Black 'paint' issue is resolved
 - ↪ no spares right now due to vendor damage, we're working on getting more fabricated
 - ➔ Conical mirrors at Cosmo Optics to be coated this month
 - ↪ There was an issue with the surface quality of the blanks as delivered by the initial vendor. This is now resolved.



Cerenkov Tank



Cerenkov Miscellanea

- Progress on "Still needed" list from Oct. meeting:
 - ~20 250ns cables to run from the F.E. rack → weldment racks
 - ↳ Done
 - 1—2 spare remotely adj. discriminator NIM modules (modified P706)
 - ↳ Done. 4 additional units were modified, 2 spare, 2 for use with Transversity.
 - C_4F_{10} order should be submitted soon
 - ↳ not used until early 2008 since we will do all tests with CO_2 and N_2
 - Gas system parts still need to be ordered
 - ↳ hopefully having the tank on-site will speed this process up
- A vendor for 0.008" 2024-T3 aluminum has (finally!) been located
 - Tech Metals & Materials, LLC Holbrook, NY (631-218-0013)
 - ↳ have quote in hand, 5 week delivery
 - material will be used for for the Cerenkov tank windows
 - they will 'chem mill' 0.010 ± 0.0025 " Al down to requested thickness