



Cubism - Braque's Bottle and Fishes, Paris c.1910-12

Updates from Bern

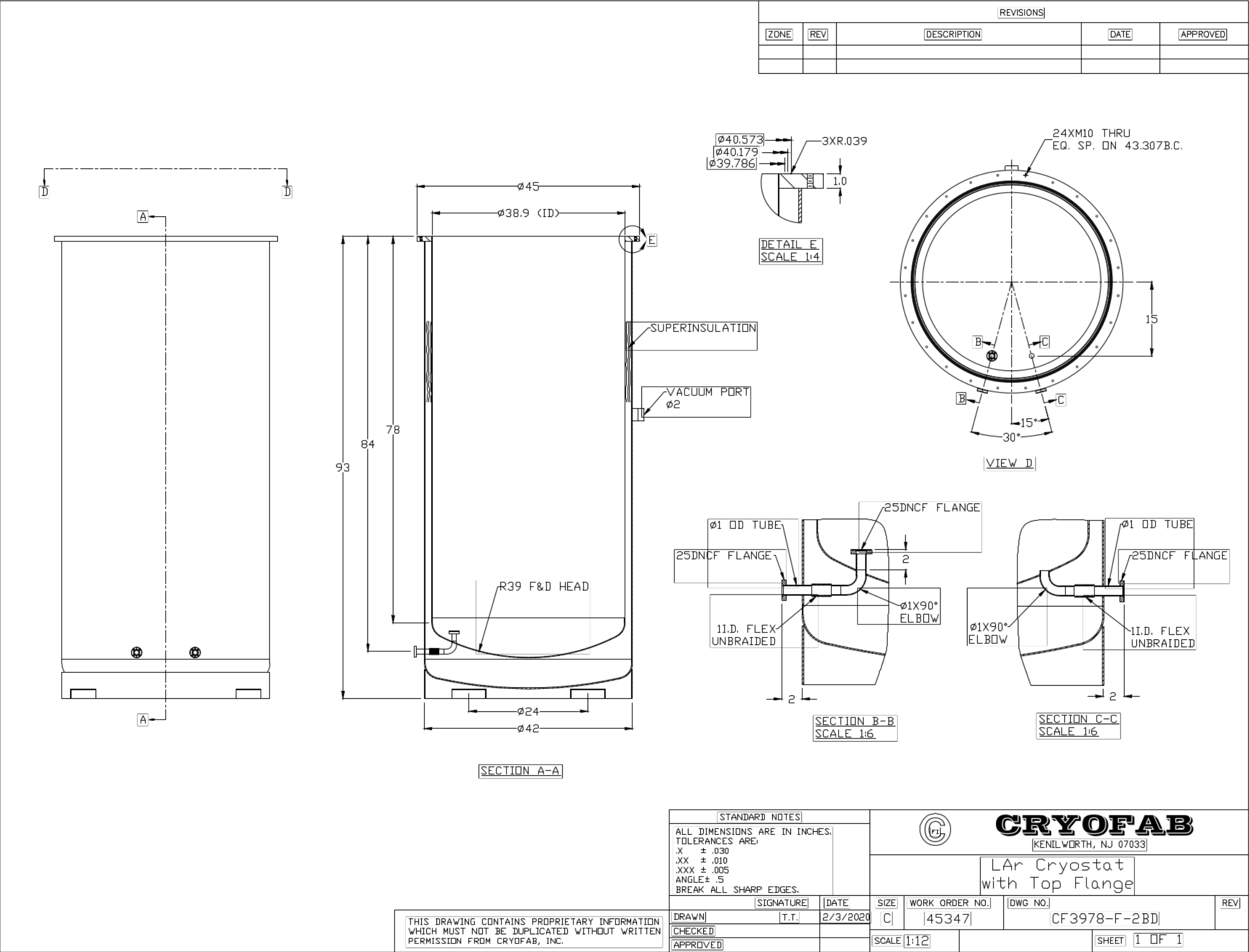


ArgonCube Fortnightly call
Feb 27th 2020
James Sinclair, LHEP

Single module cryostat

The final design has been vetted, and the order placed.

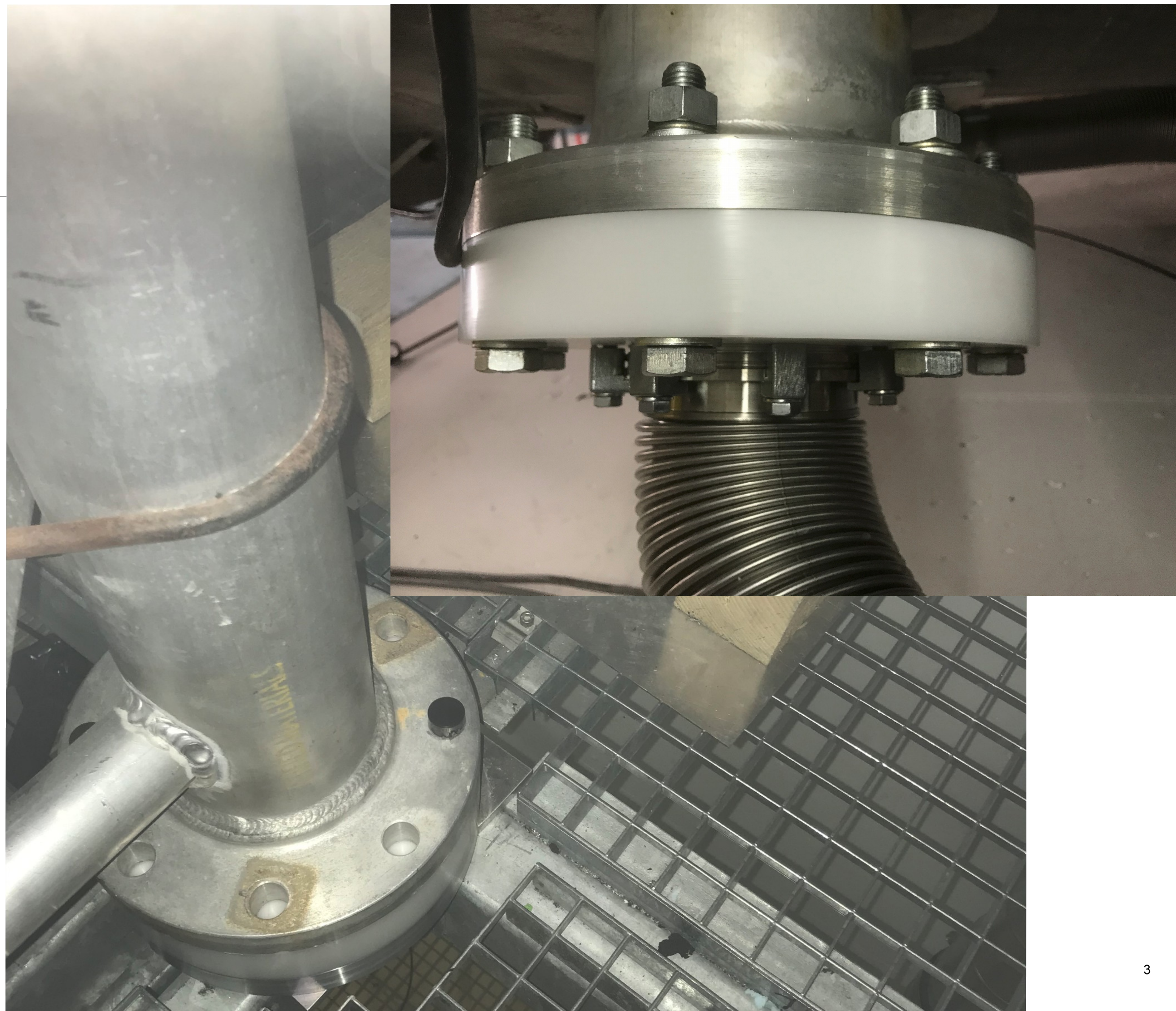
This should be with us in April.



Electrical isolation

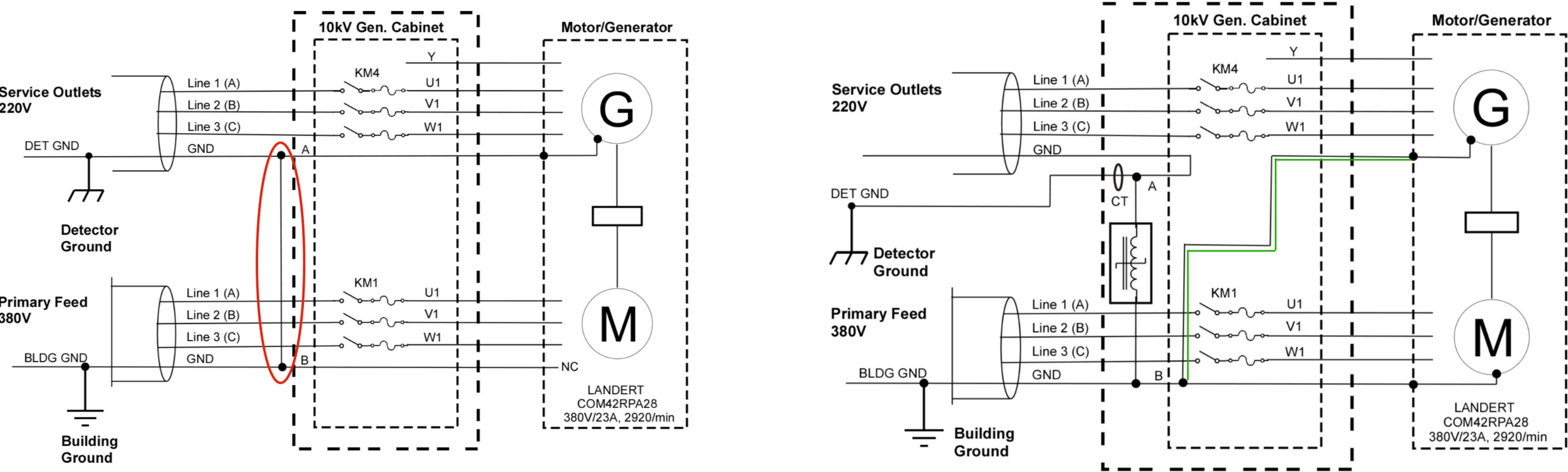
We Have been working with Linda to develop the isolation scheme for the 2x2.

The cryostat isolation is now installed, and a open circuit is measured between cryostat and building ground.



Electrical isolation

Francesco and Linda are now implementing a new grounding scheme for the racks and generator, improving safety in a phase failure state



Inclusive drawings

To ease the integration, we are starting to include all additional components (isolation, valves, connectors...) in the combined drawing.

Available on the ArgonCube Google drive.



External filter

We have a cryostat and filter material. We are assembling internal components and top flange.

Thermowells are due this week (S. Pordes advised monitoring of regeneration temp, $<200^{\circ}\text{C}$).

The filter will need pressure testing at 26 bar before filling.

The purity test stand should be ready to integrate the filter in late March.



Module bucket

Most bucket G10 components
have arrived.

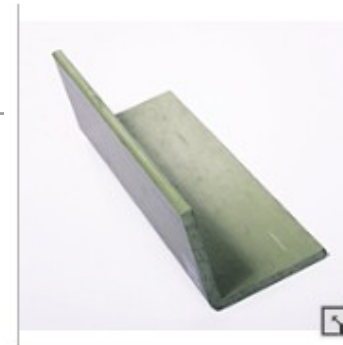
The L-profiles have been ordered, and will need machine finishing.

The composites group at LBNL have identified an adhesive and advised bonding procedure. Thanks to Andrew.

Components ready late March

Item # pn-1494, 90° Epoxyglas™ G10 / FR4 Laminated Molded Angle

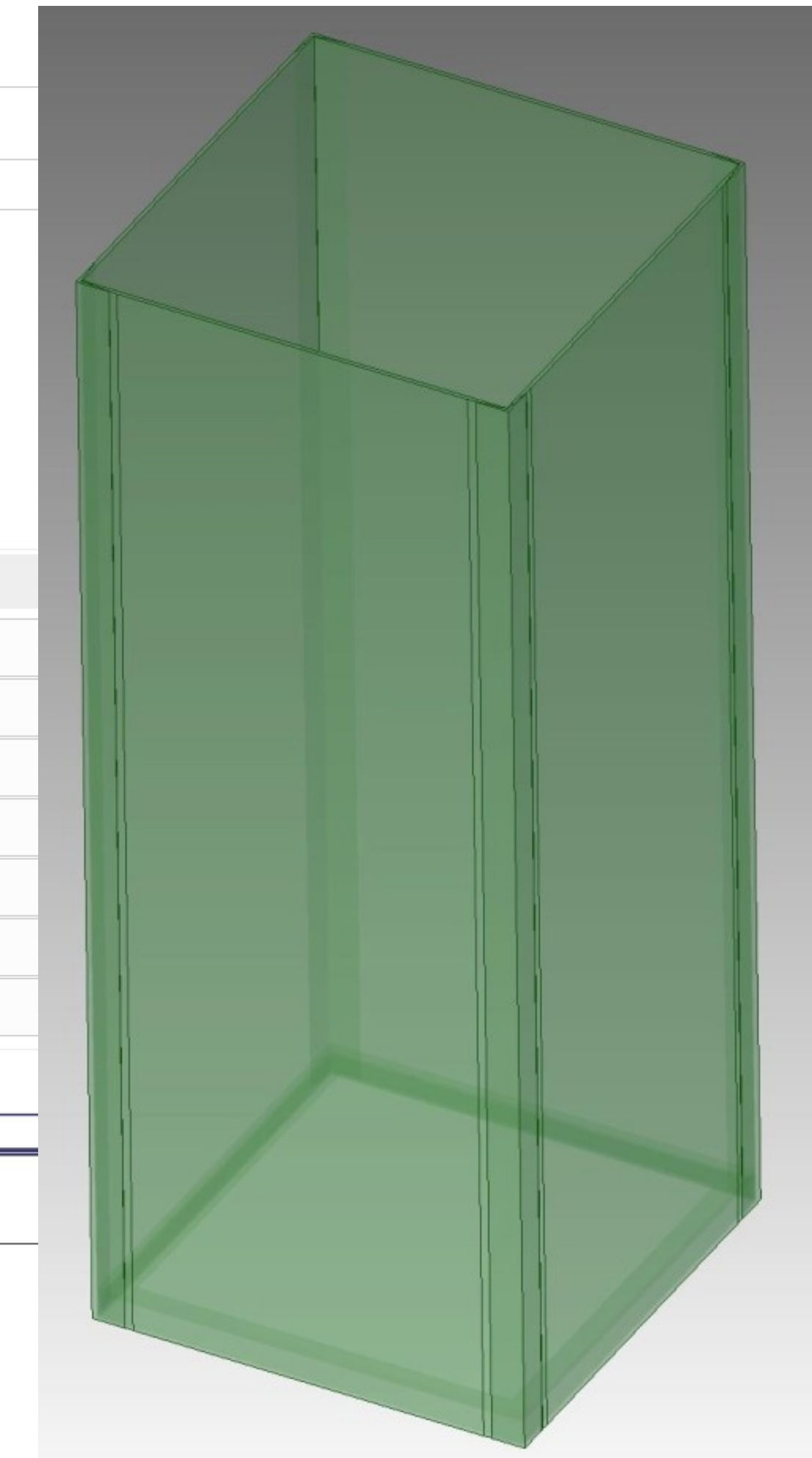
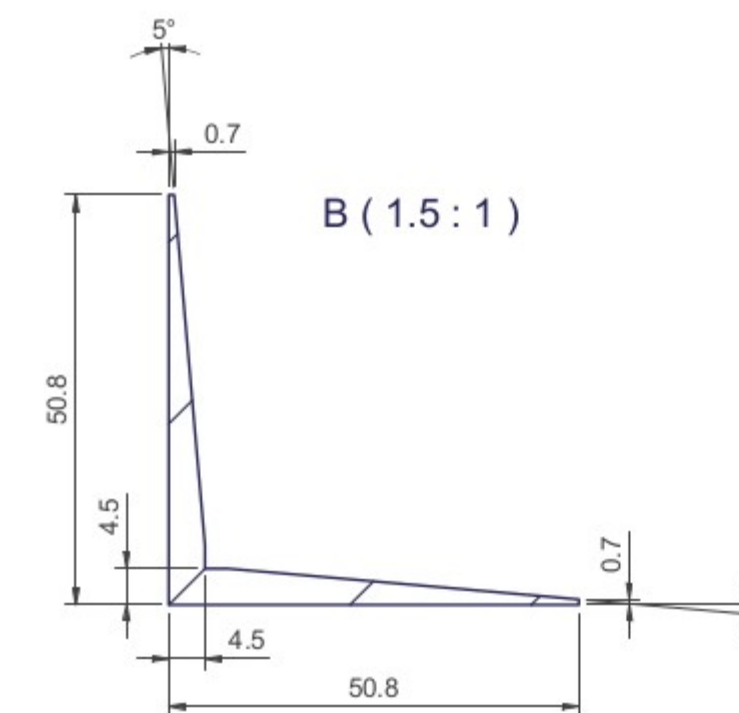
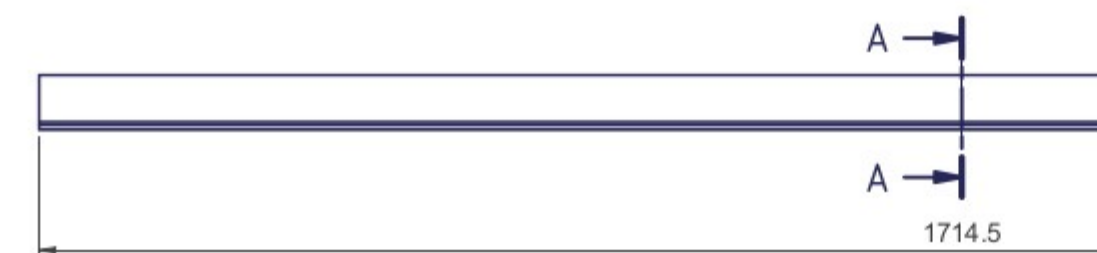
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Epoxy Fiberglass

Specifications

Thickness (inches)	0.250 Inches
Rod Length	24 to 36 in
Horizontal Leg	2.000 Inches
Vertical Leg	2.000 Inches
Thickness (mm)	6.350 mm
Acculam® & NEMA Grade	G10 / FR4
Military Grade(s) & Type(s)	Mil-I-24768/27



Nicht vermasste Kanten
0.2 x 45° gebrochen
Allgemeintoleranzen
nach ISO 2768-m

1		4		L_Profile								Hgw 2372							
Pos.		Anz.		Nummer				Gegenstand				Material				Bemerkungen			
								A3		Datum		Name							
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										L_Profile				Ausgabe		Blatt Nr.:		Maßstab	
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Ausg.		Änderung		Datum		Name		Zusammenst. Nr.:				Einsatz für:				Ersetzt durch:			

Filter test stand

Purity measurements with the 2x2 cryostat are not feasible (cost and time) so we are constructing a purity test stand in our 500 l cryostat.

A gas chromatograph will also be installed.

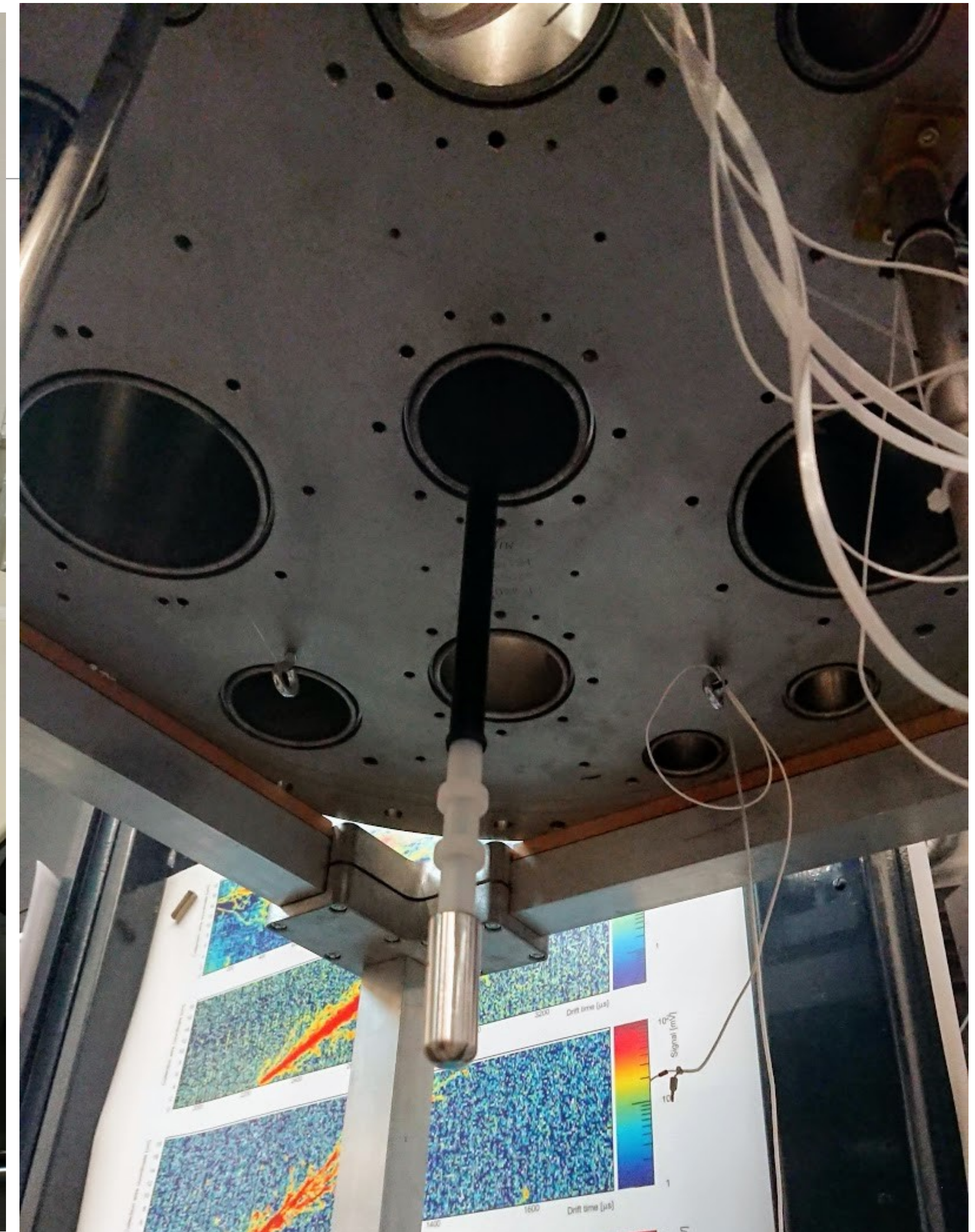
The this setup will operate March 9th, also testing ArCLight, LCM and SLAC HV feedthrough



Filter test stand

The original pixel demonstration TPC is being repurposed as a purity monitor.

It will be shortened and hung below the HV feedthrough



Light R/O

Material is in hand for ArCLight, but the tiles must still be assembled.

Construction is underway of full size tiles. Cold tests happening this week.

The feedthrough PCB should arrive this week.

