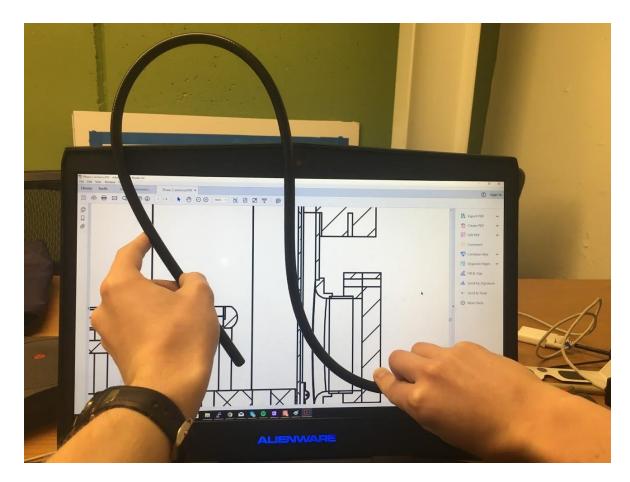
### Phase II

Shaun Alsum

## **New Stuff**



Designing HV cable routes and terminations to grids, rings, hoops, etc.

# Old stuff

### Minor things progress

- Thinking about attaching HV to grids/plates/field hoops
- Steffen volunteered to make the PMT connectors
- LED/Camera decisions
- Located some wire, estimated how much needed, etc.

## Vessel in place!



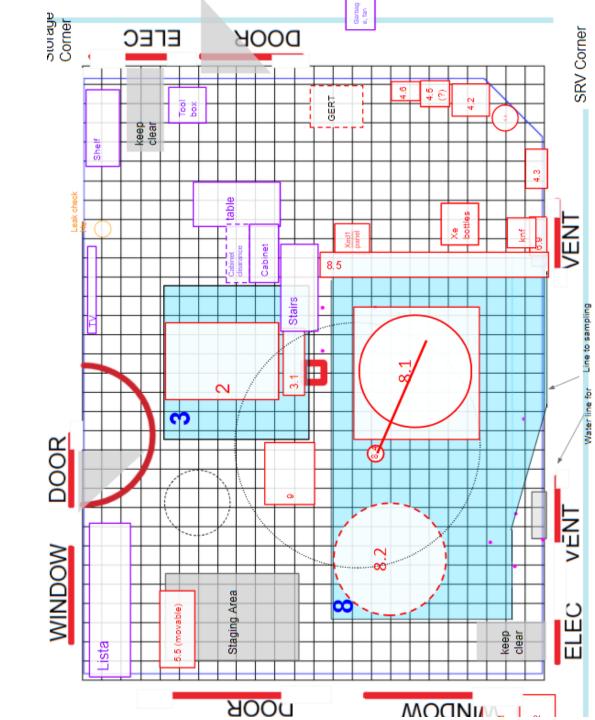
### Breakout parts

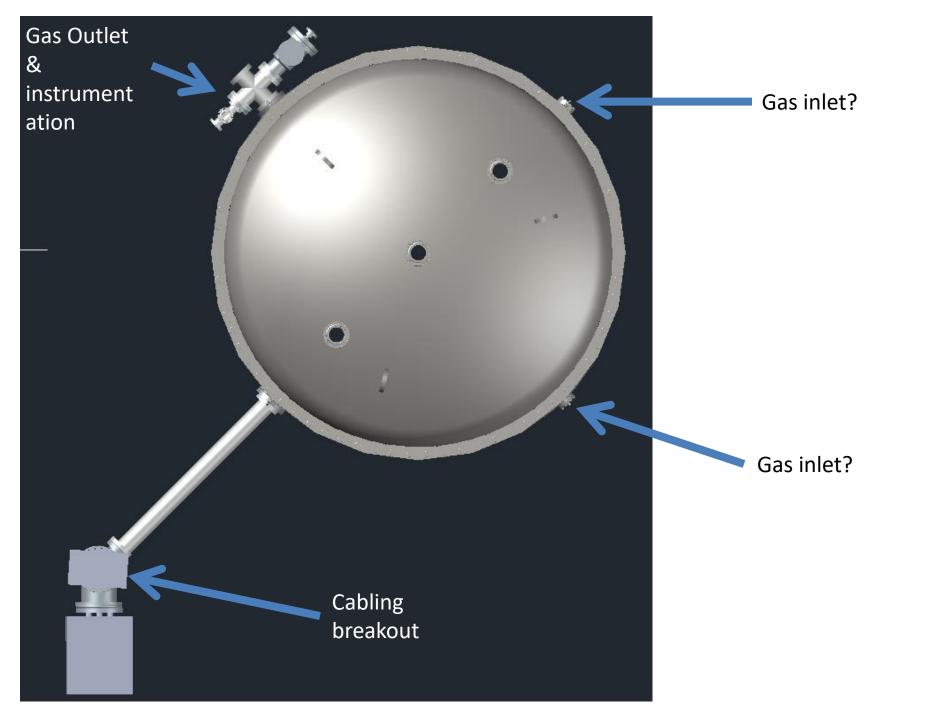
- All parts needed for breakout ordered, located, or in-hand
- Need PMT HV FT from PSL still

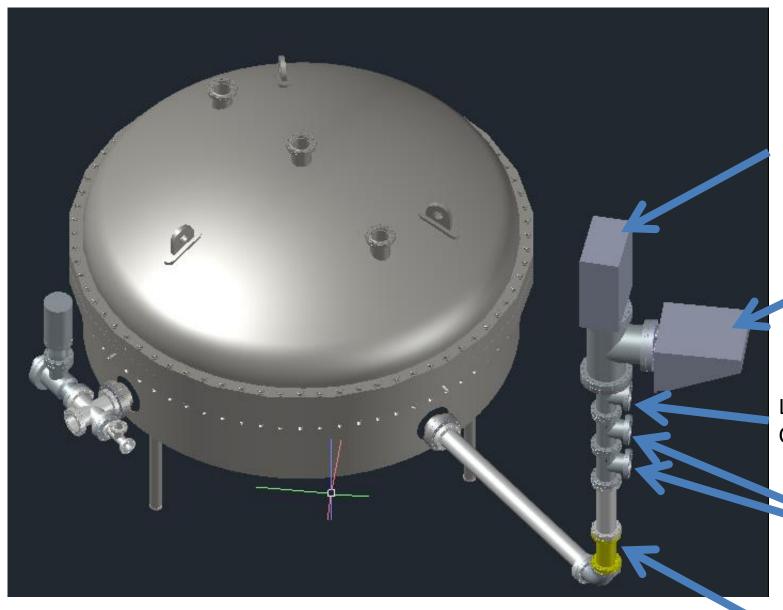
A	А	В	С
1	Part	#Needed	#In Posession
2	6"->4-5/8" ZLR	2	0
3	3' long 4-5/8" CF conduit	1	1
4	4-5/8" CF elbow	1	2
5	18" long 4-5/8" CF bellows	1	1
6	12" long 4-5/8" CF tube	1	1
7	4-5/8" CF T	4	4
8	4-5/8"->8" ZLR	2	2
9	8" CF 5-way	1	0
10	8" CF 4xD25 FT	1	0
11	PMT HV Box	1	1
12	8" PMT Sig FT flange	1	0
13	PMT Sig Filter Box	1	1
14	4-5/8" CF 2xD25 FT	1	1
15	4-5/8" Marty's HV FT flange	2	0
16	4-5/8" CF valve	1	1
17	4-1/2" turbo pump	1	0
18	4-5/8" -> 2-3/4" CF ZLR	1	2
19	2-3/4" Hornet	1	0
20	2-3/4" Worker Bee	1	0
21	2-3/4" -> VCR FT	2	2
22	3-3/8" -> 2-3/4" ZLR	1	1
23	2-3/4" 5-way cf	1	1
24	2-3/4" blank	1	1

#### Breakout

Hut layout to orient you. Sorry words are sideways







PMT Sig filter box

PMT HV FT box

LED, Camera, LA

> Grid/hoop/ refl plate HV

Bellows

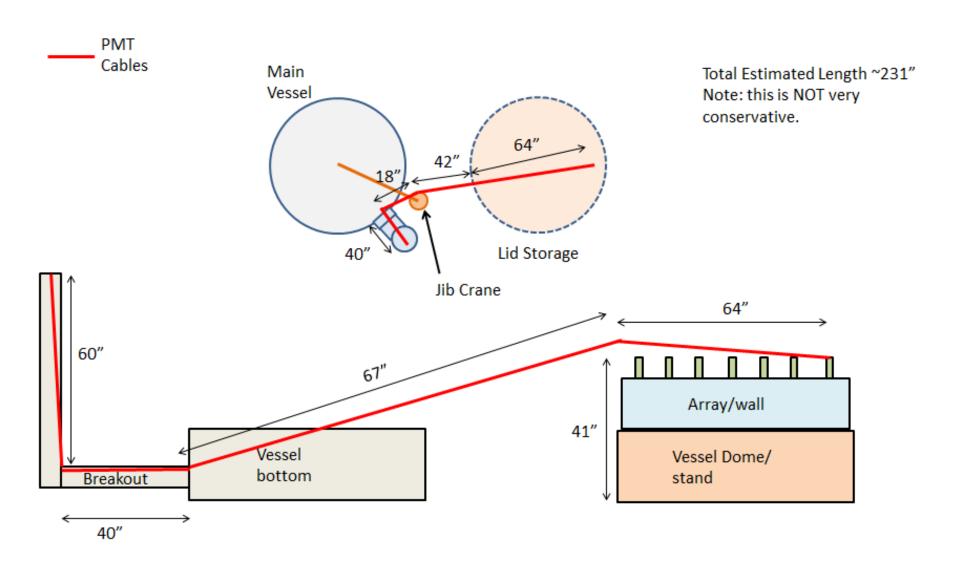
To VCR outlet on which >1bar pressure gauges

Turbo

Hornet

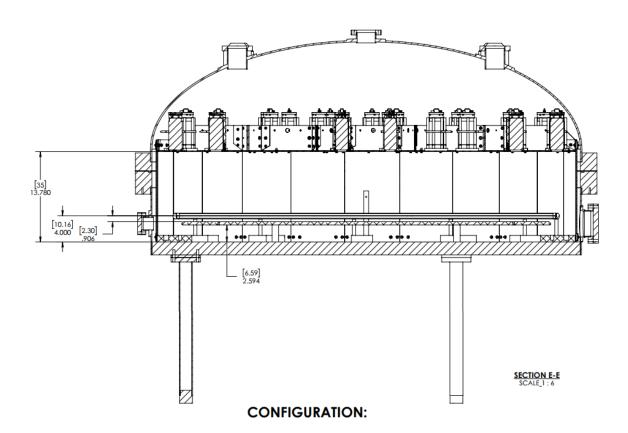
Worker bee

# PMT cable length estimates



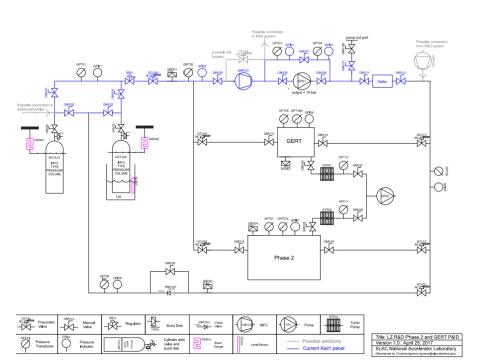
# System Test Phase II - LZ

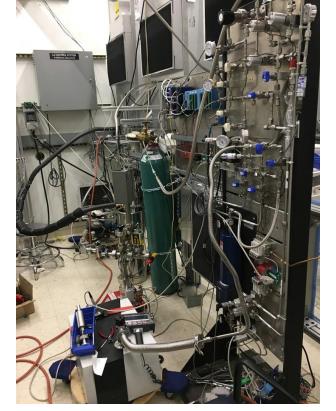
 Large Vessel designed to test the LZ field generating grids in Xe gas.



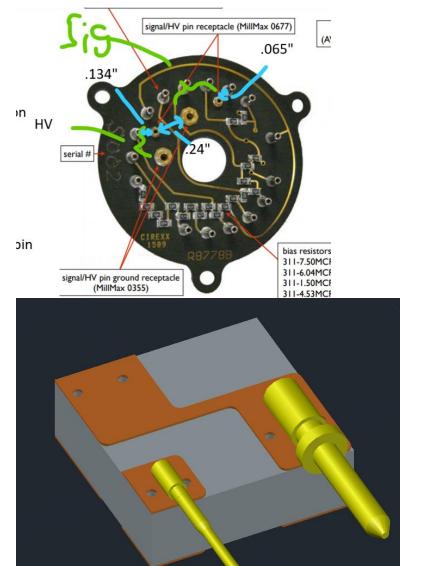
#### **Gas Circulation**

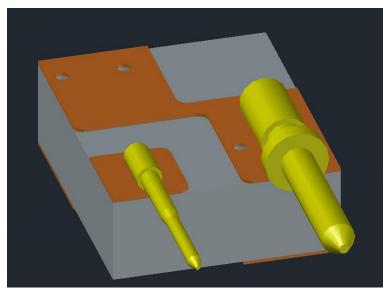
Assist in concept, design, and construction of Phase II/Gas Test gas system

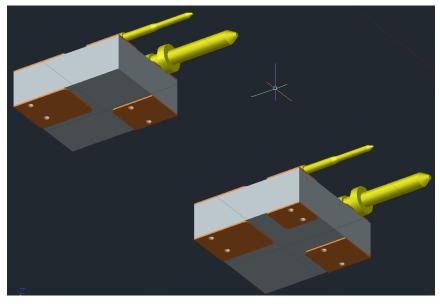




### PMT connections







### PMT array test assembly

- 43 bent sheet metal pieces
- Ensure they fit correctly and withstand manipulation and stress
- Thorough cleaning





