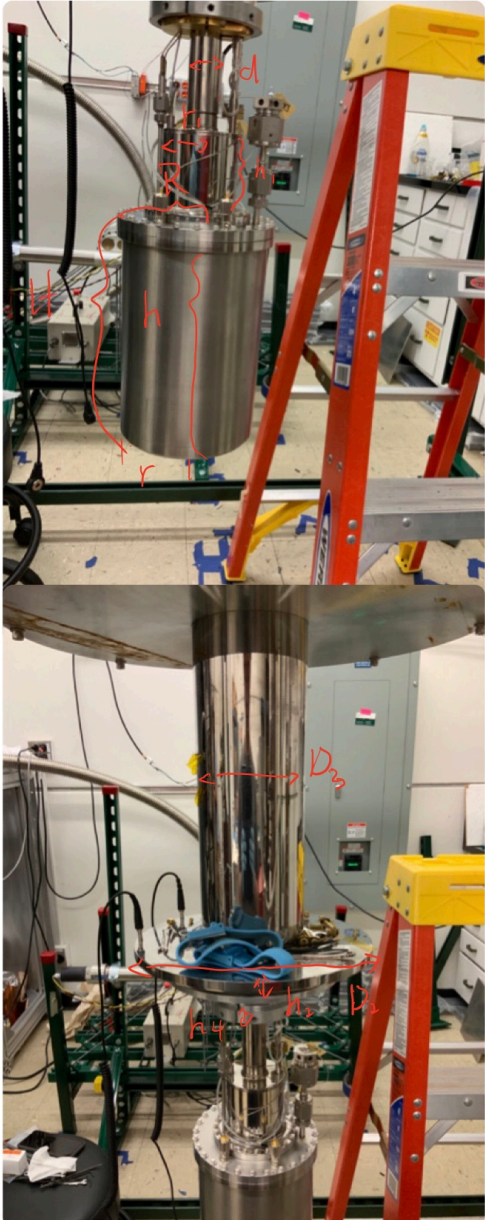
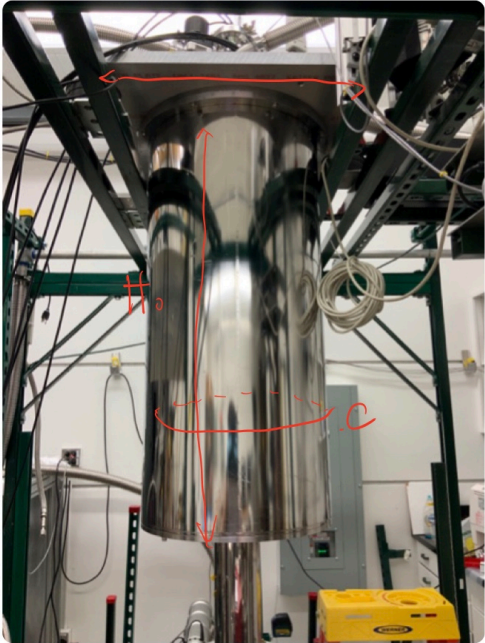


## Janis Fridge Simulation Updates Sep 27, Fri


- Summary
  - Physically measured (Roughly) the fridge
  - The fridge has been debugged, with several possibly necessary details to add
  - New 4K shield and IVC has been updated
- Physical measurement
  - Just a profile
  - It tells us that there are no OBVIOUS difference between reality and drawings...
  -



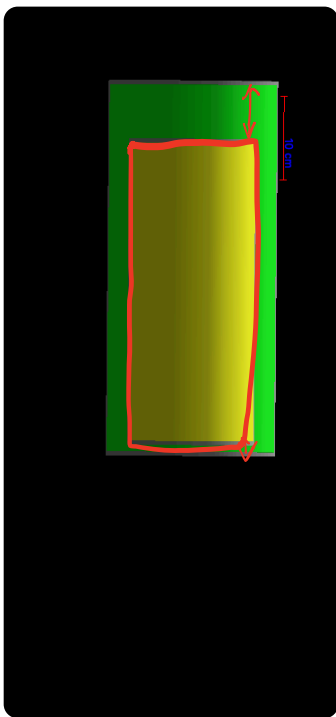
$H = 20 \text{ cm}$   
 $h = 18.3 \text{ cm}$   
 $r = 6.25 \text{ cm}$   
 $R = 6.5 \text{ cm}$   
 $r_1 = 3.1 \text{ cm}$   
 $d = 2.5 \text{ cm}$   
 $h_1 = 6 \text{ cm}$



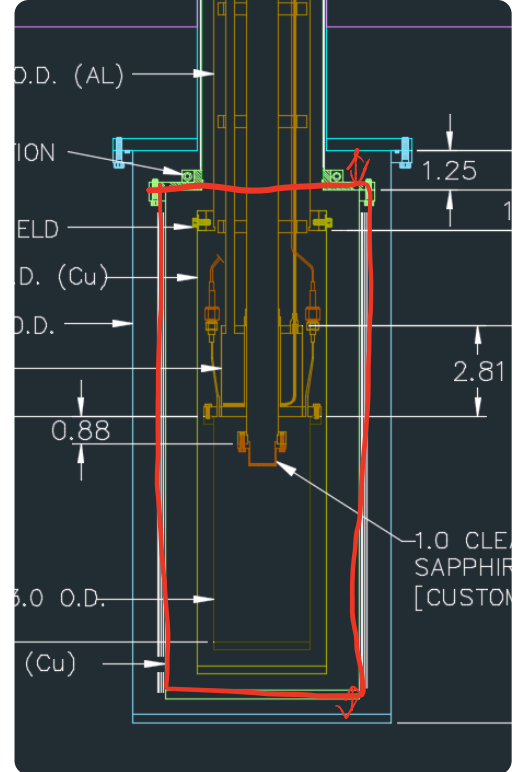
$D_3 = 9.5 \text{ cm}$   
 $D_2 = 21 \text{ cm}$   
 $h_2 = 1 \text{ cm}$   
 $h_4 = 1.3 \text{ cm}$   
 $C = 130 \text{ cm}$   
 $H_0 = 88 \text{ cm}$   
 $\alpha = 62 \text{ cm}$

  
 2  
 6

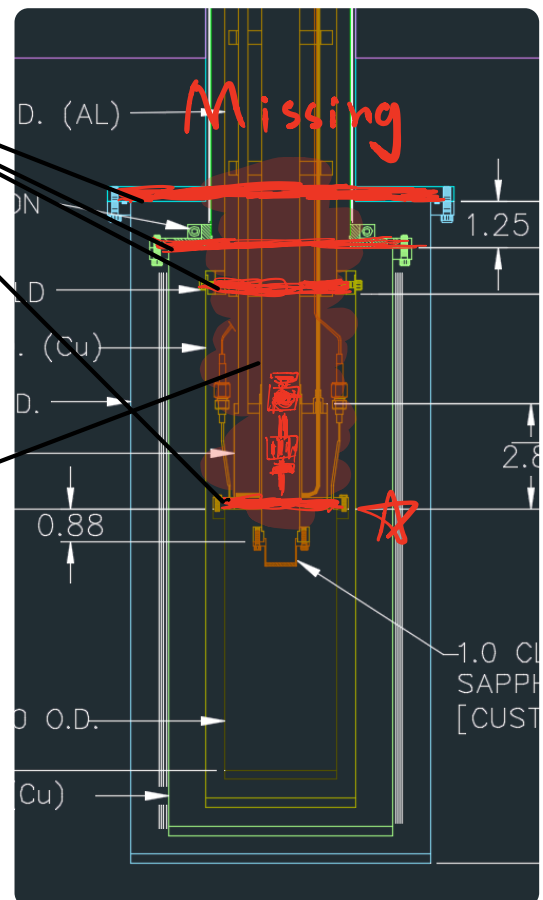
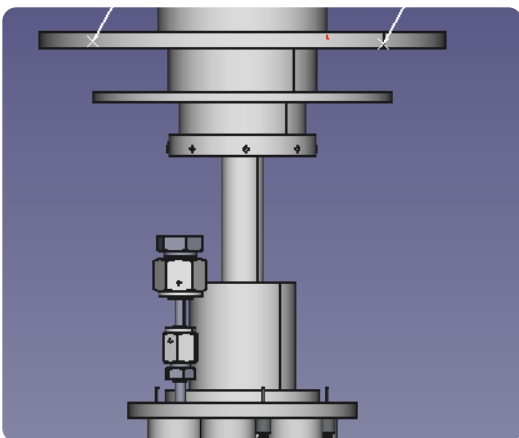
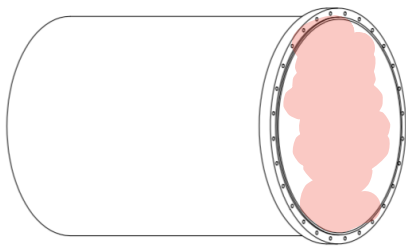
- Debugging
  - Possible fatal problems
    - The only found dimension error



- Over-simplicity



## Plates

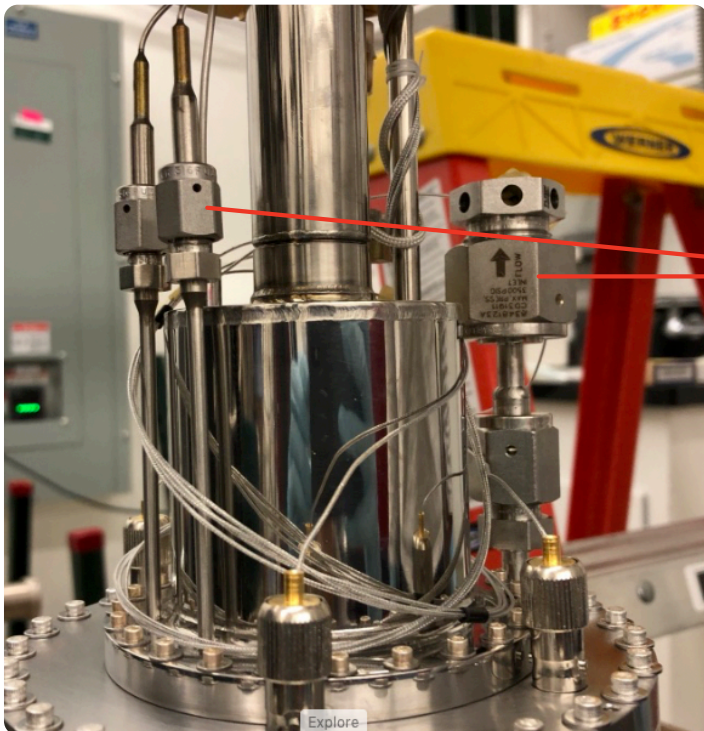
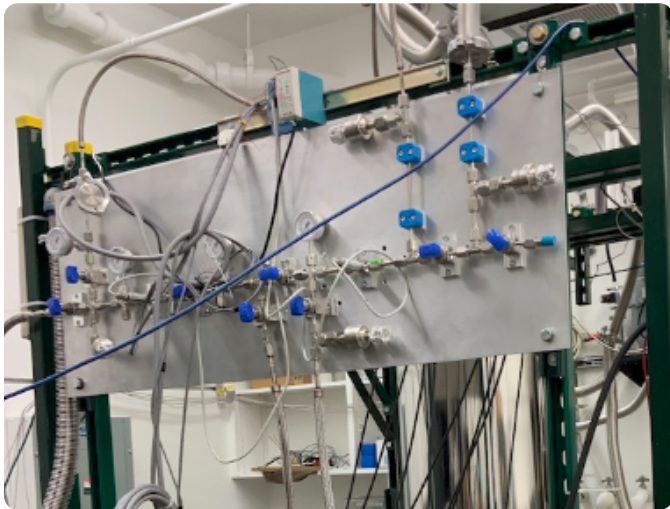


- Slots



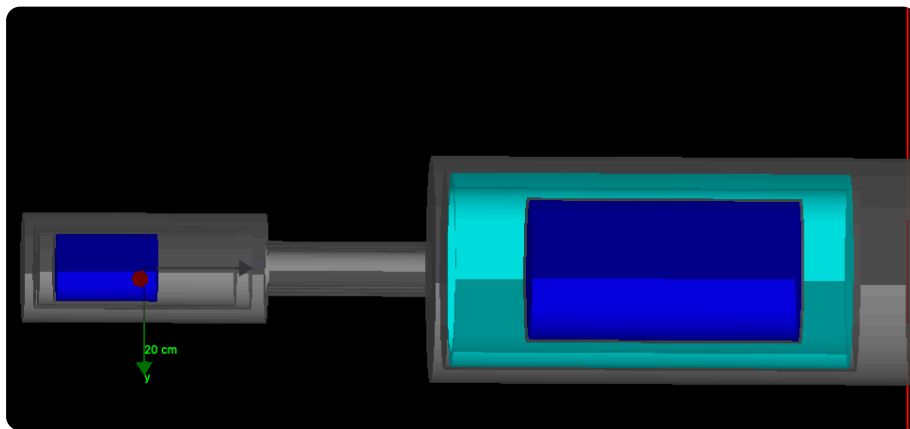
◦ Minor problems

- Close screws with different material
- Cables and lots of complex structures



Model them?

- Should the sample chamber be full?



- Questions

- Typical cross section?
- Another bug?

$G4double \text{ can\_77k\_outer\_posZ} = (\text{can\_vacuum\_outer\_Dz} - \text{can\_77k\_outer\_Dz})/2.0;$

