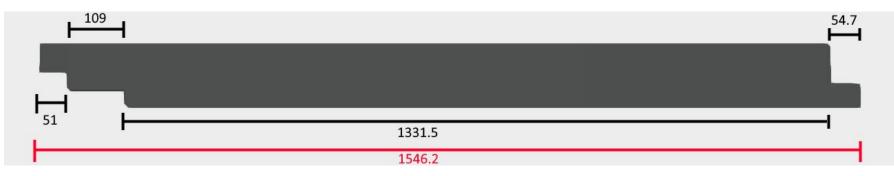
# ICS - It's Complicated Sadly

John Waiton

## Full length measurements first (everything mm)



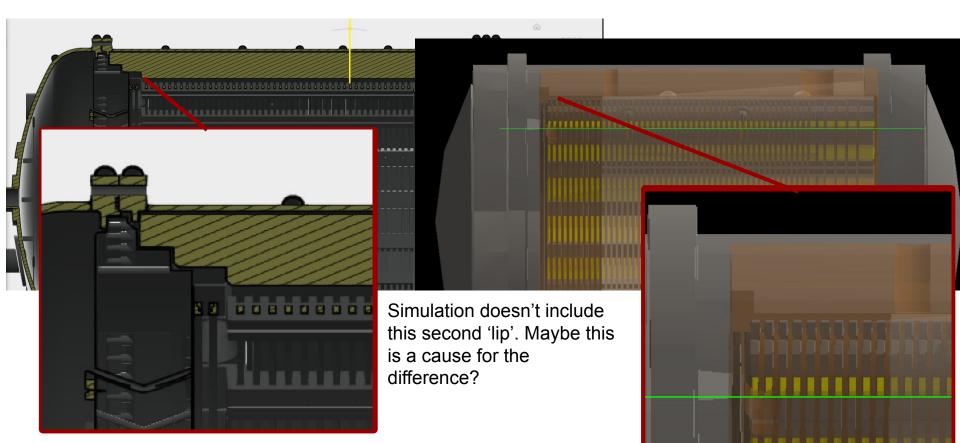
Singular copper bar in drawings, full length 1546.2

Copper Shielding length in simulation: 1484.3

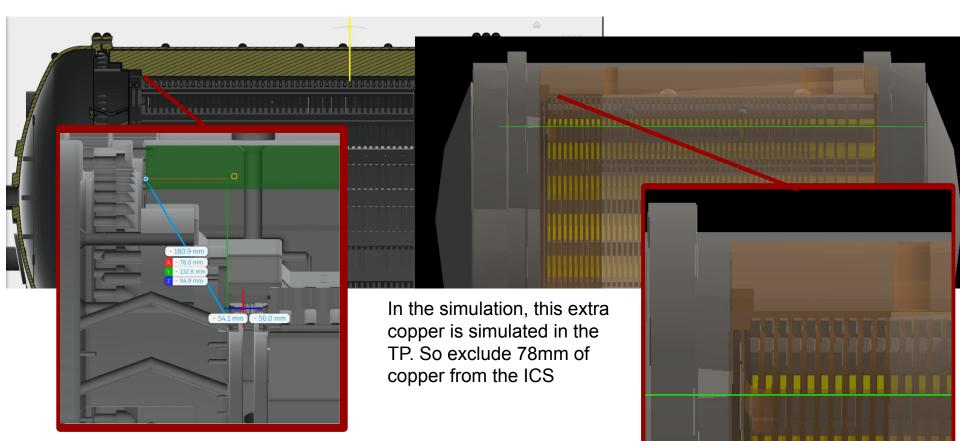
Discrepancy of 61.9. Why?



### Sim/drawing comparison, TP side



### Sim/drawing comparison, TP side



## Keeping count

1546.2mm (true length) - 78mm = *1468.2mm* 

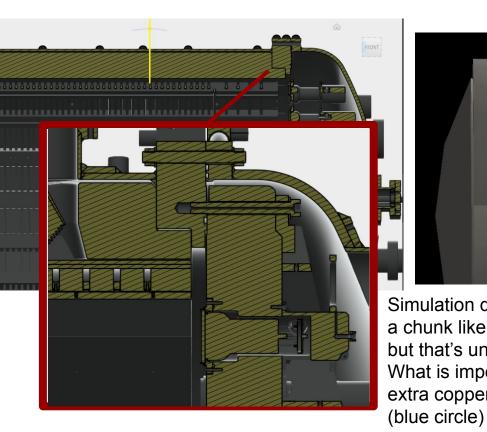
1484mm

expected length in sim

true sim length

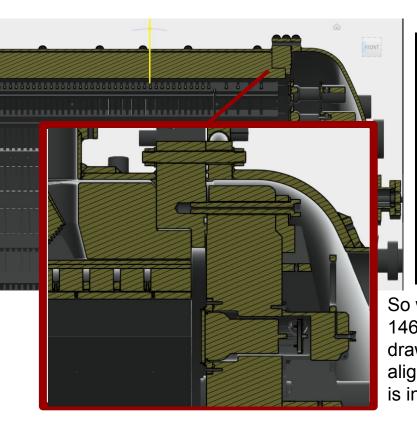
Discrepancy of simulation makes ICS too long by 15.8mm

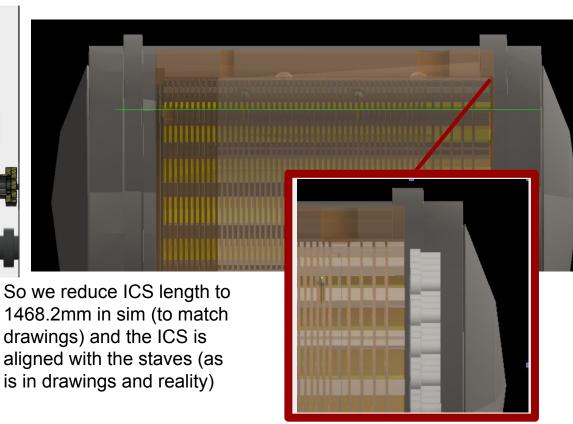
#### Sim/drawing comparison, EP side



Simulation doesn't cut out a chunk like the drawings, but that's unimportant. What is important is this extra copper in the ICS

#### Sim/drawing comparison, EP side





# Aligning feedthrough ports

