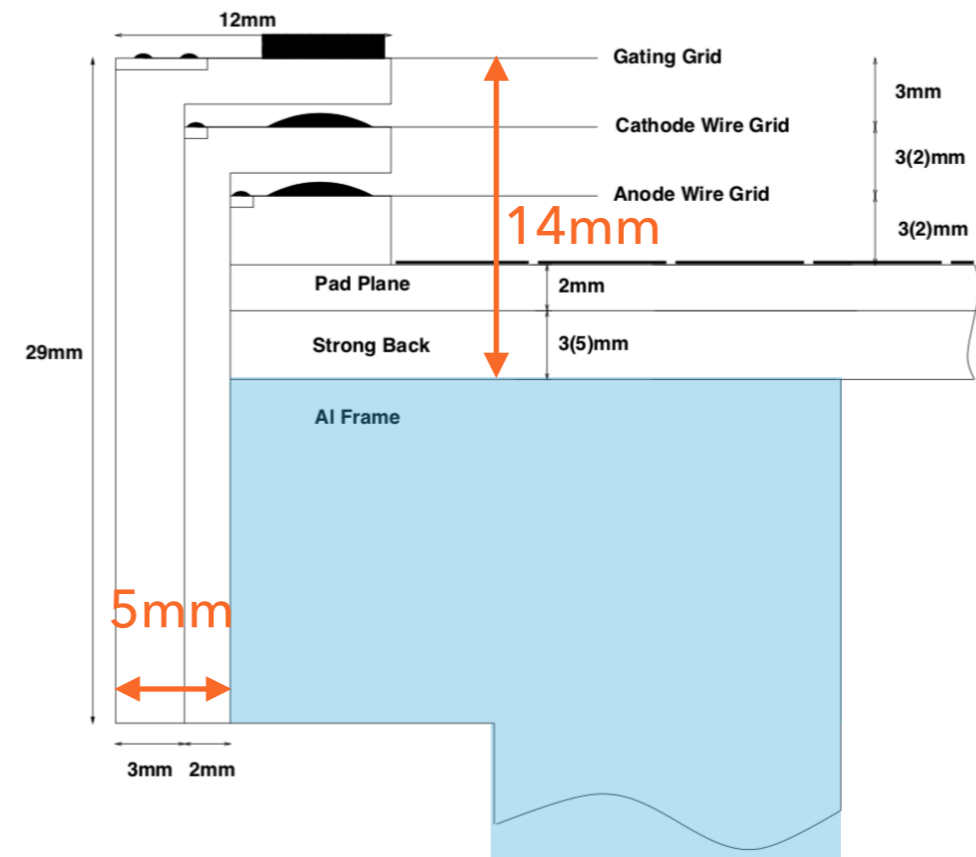


ZACHARY CHEN-WISHART 16/09/2020

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**LIGHT SUM SQUARE**

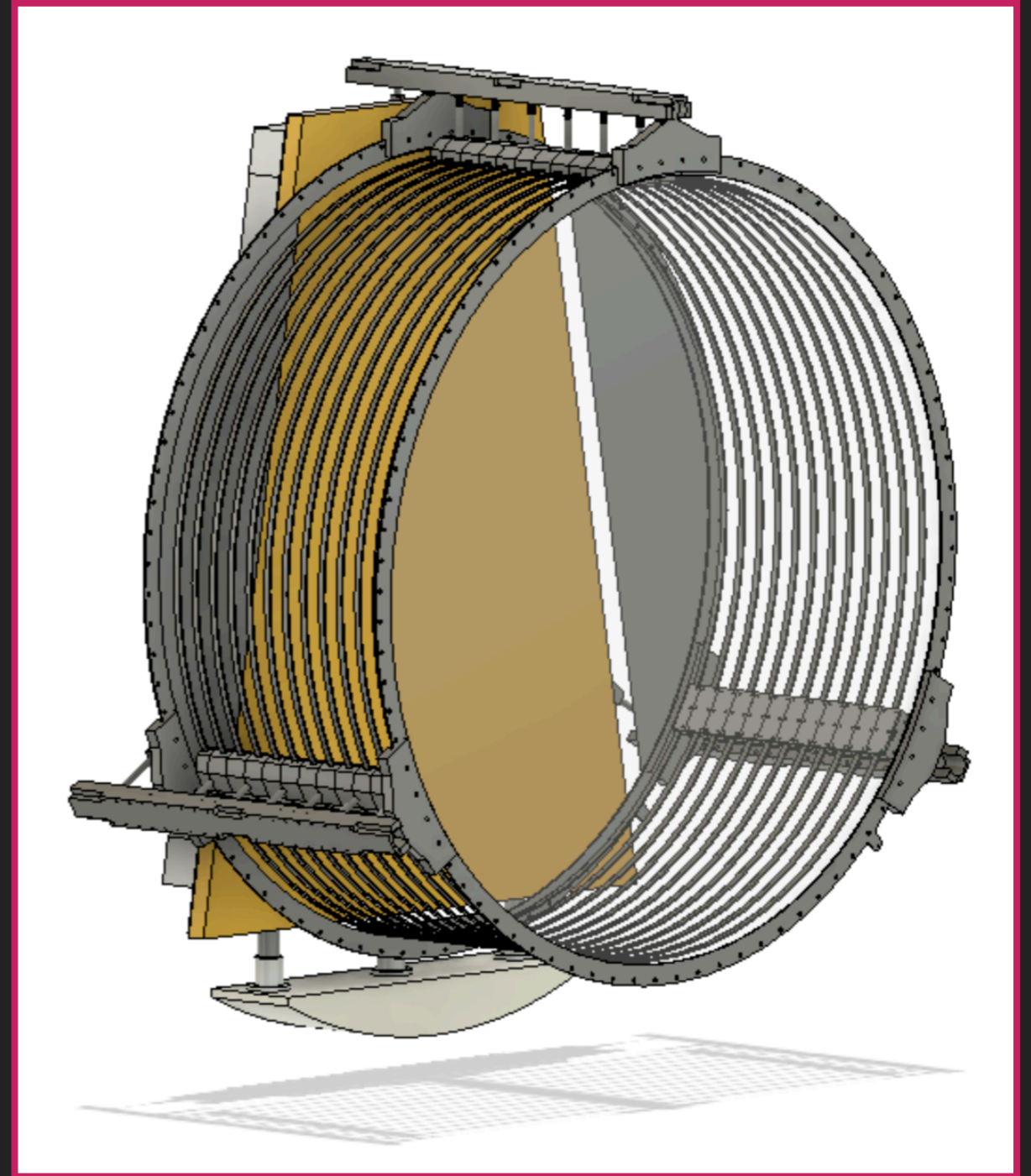
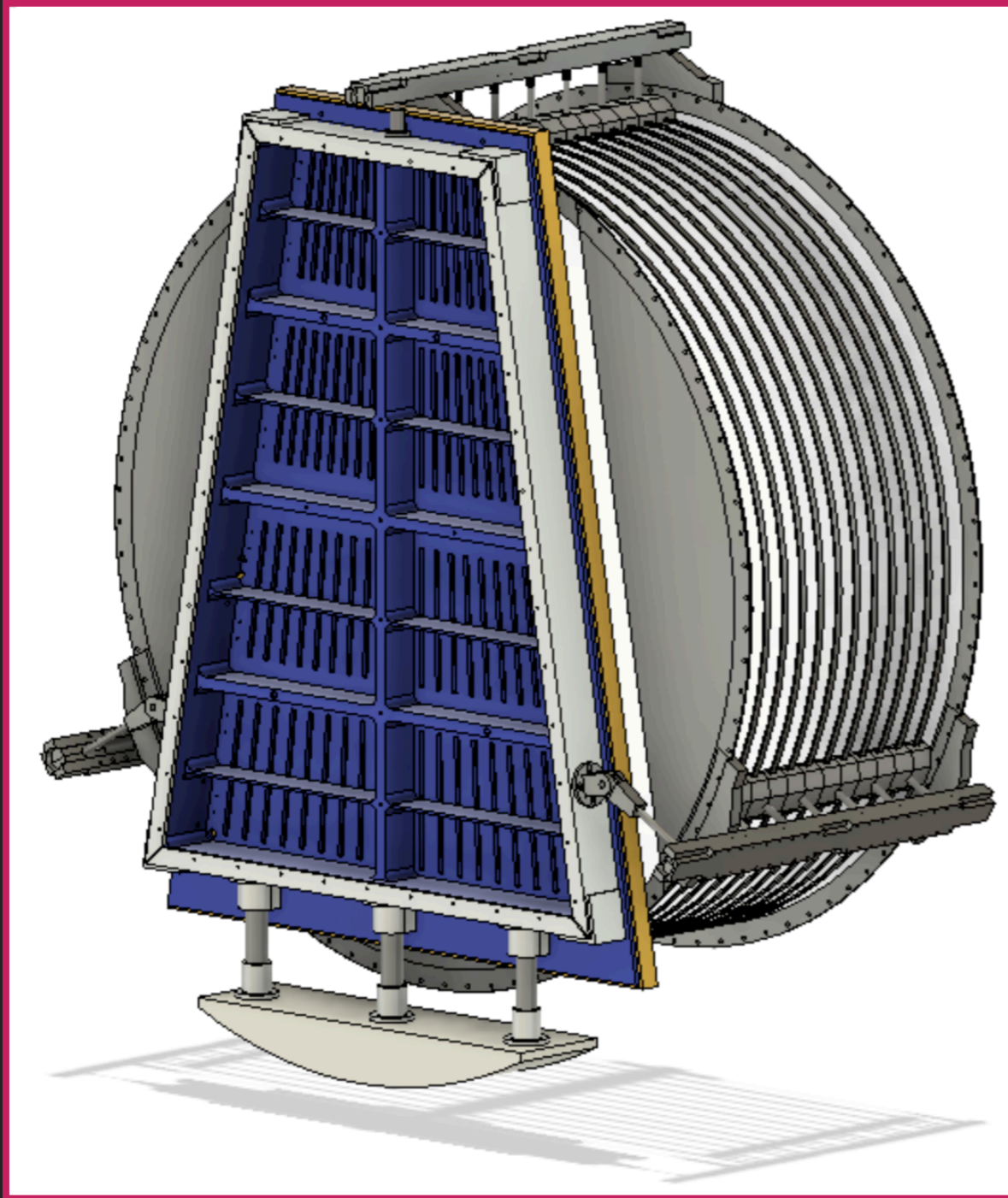
# OROC ASSEMBLY DRAWING: WIRE GRID

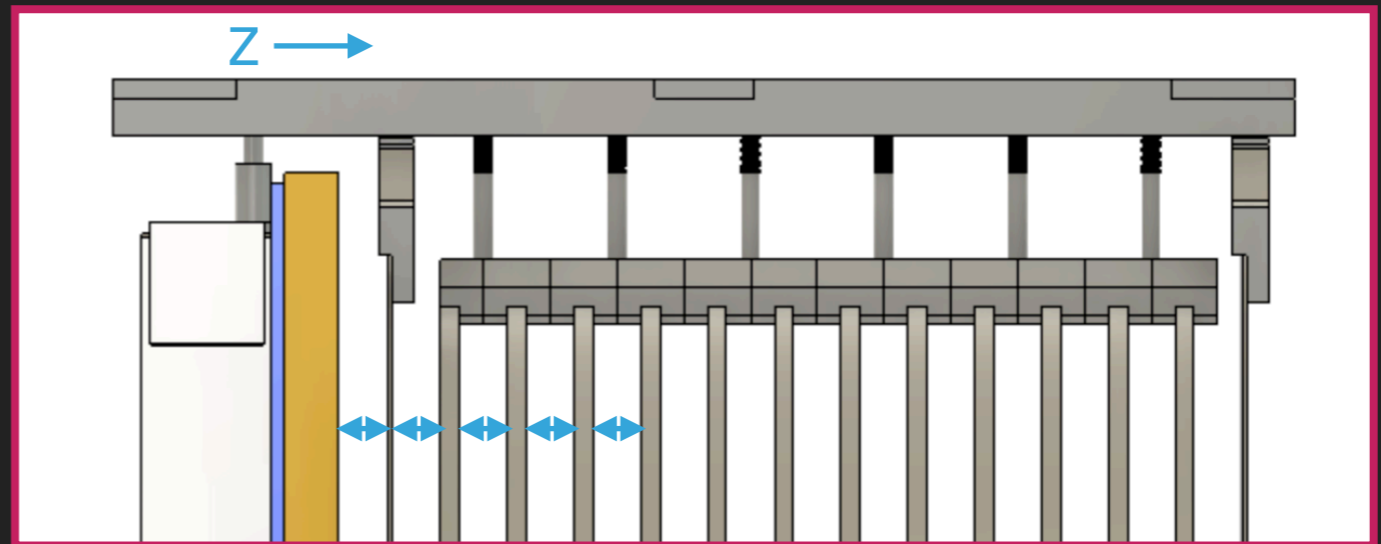
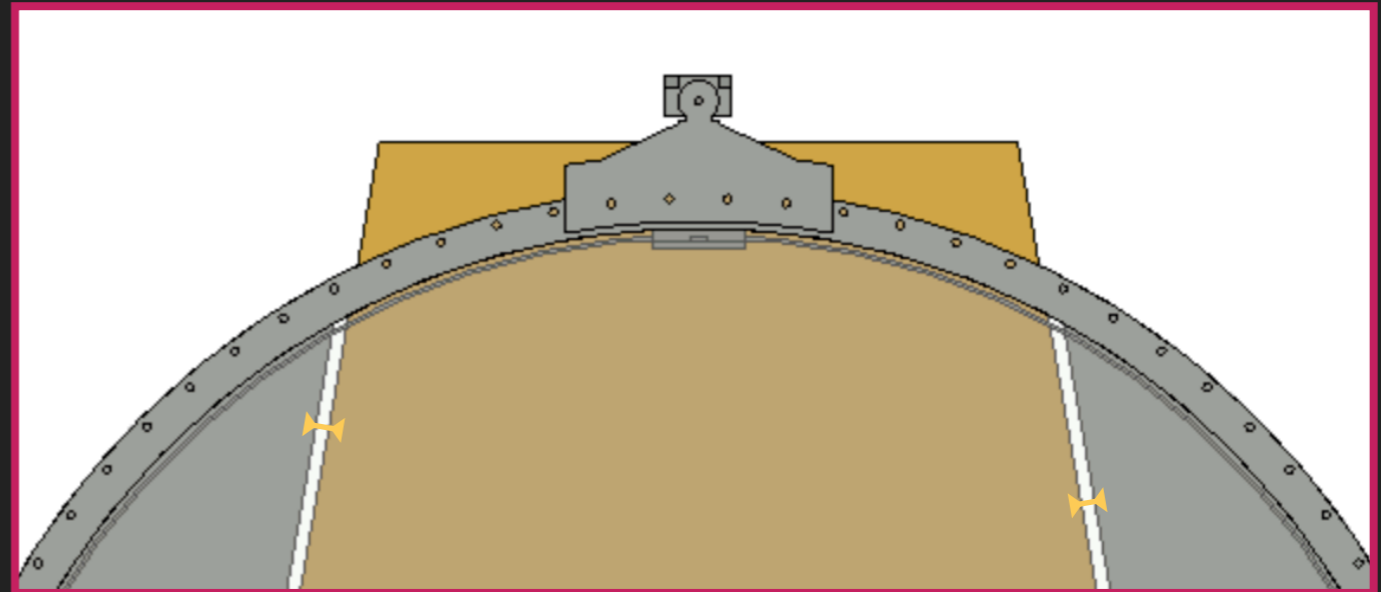
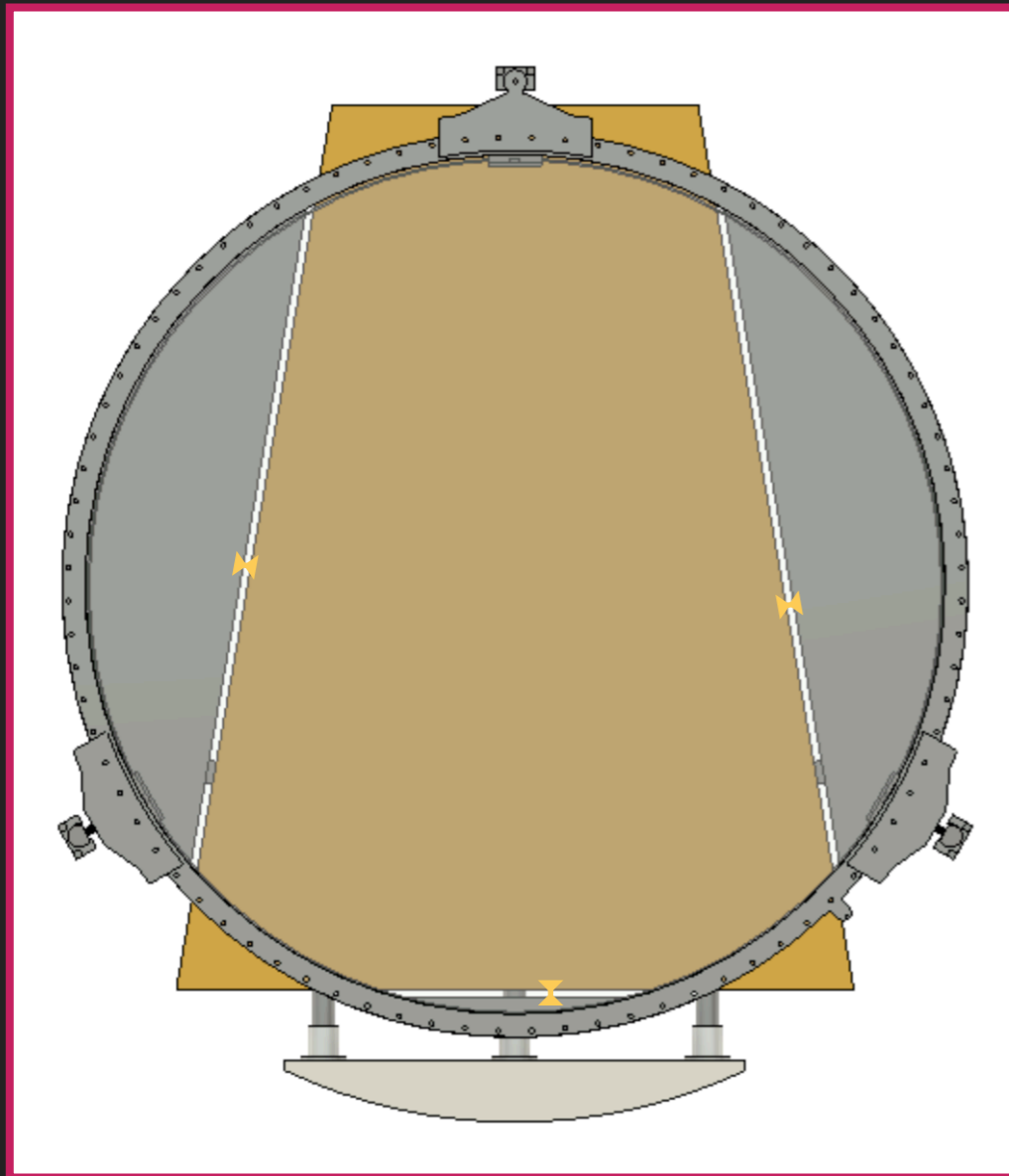


**Figure 4.7:** Wire fixation in the outer readout chamber (dimensions for the inner readout chamber are in parentheses). The frames are made of fibreglass-epoxy.

- ▶ Plan: Add a volume representing the wire grid on the OROC CAD model -> 5 mm boarder in x & y and 14 mm in z
- ▶ Using design criteria of: distance from wires to field line terminator & field line terminator to the first field cage ring -> We can design the field line terminator rail inserts and make the assembly model of the OROC TPC

# OROC ASSEMBLY DRAWING: ASSEMBLY





- ▶ Currently the field terminator has:
  - ▶ **10 mm** clearance in x & y; and
  - ▶ **25.3 mm** between the gating grid and the field line terminator and the first field cage ring
- ▶ This **25.3 mm** distance between the gating grid and the field line terminator can be reduced but due to the interference between the ring and the OROC has to be **> 0 mm**
- ▶ Alexander had an idea to put a resistor between them and make it same spacing as field cage rings