

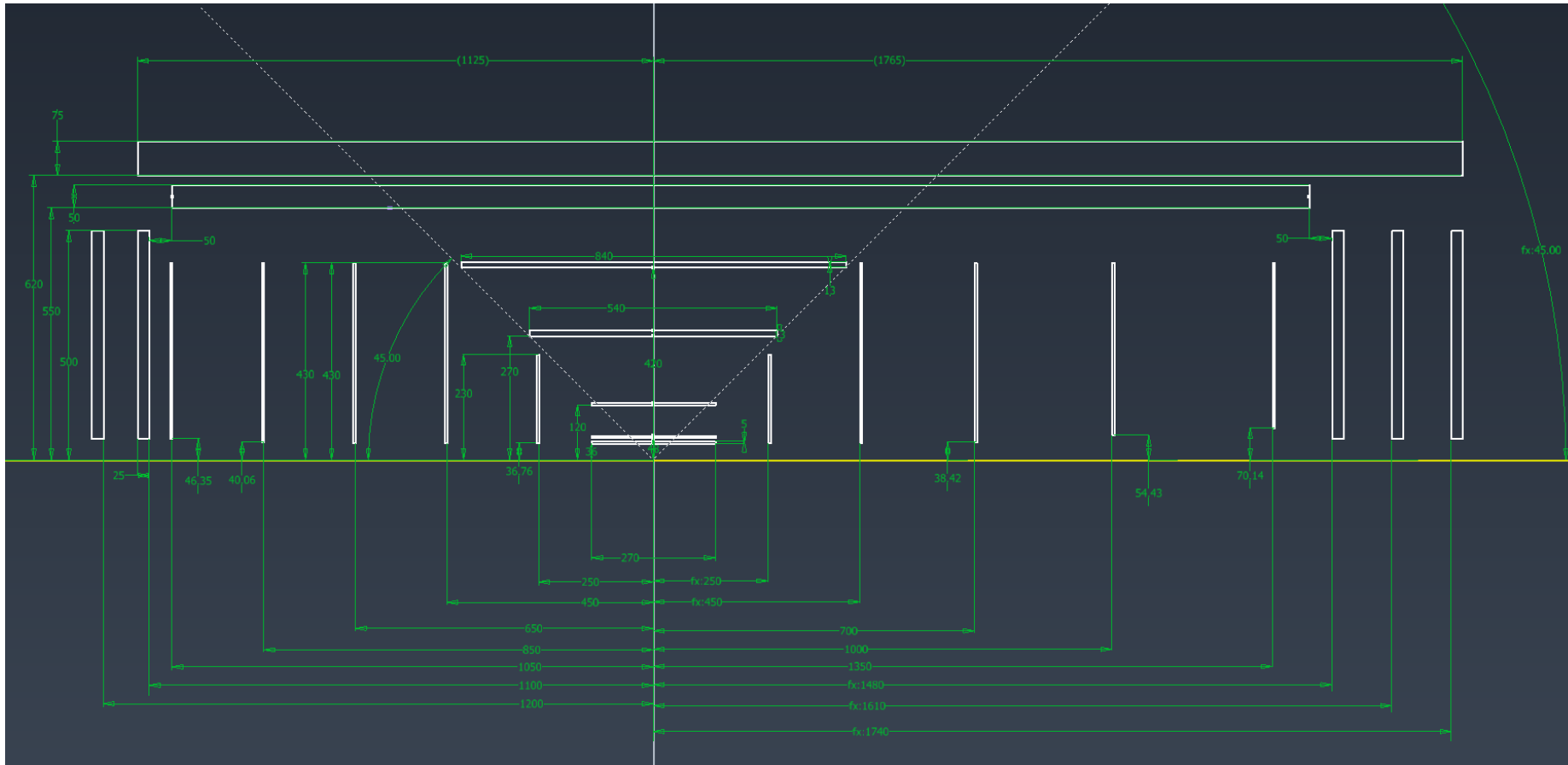
# CyMBaL – New geometry

*MPGD-DSC CyMBaL meeting, Mar 27th 2024*



# New keeping zones

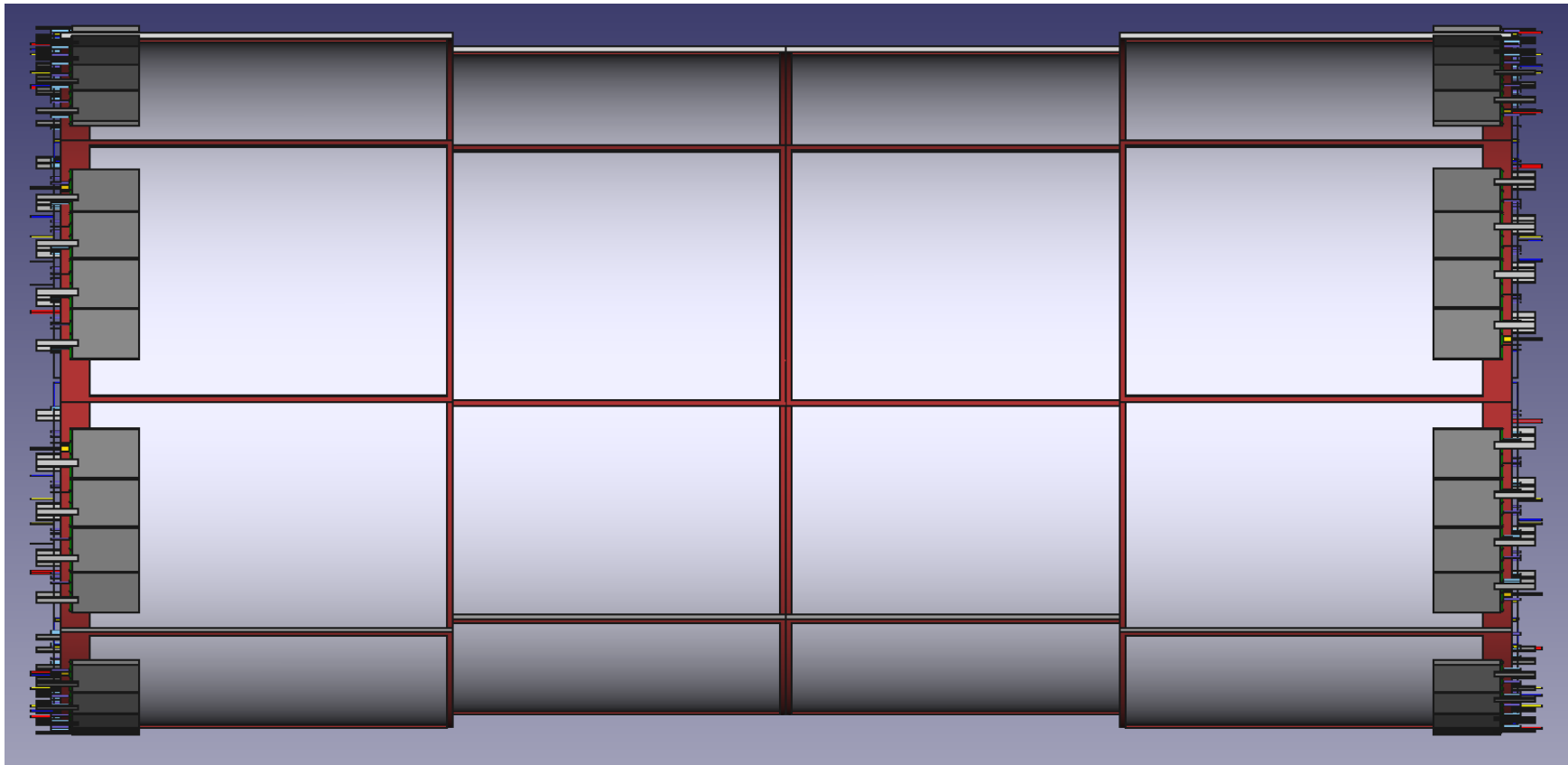
- From Roland's presentation at the TIC meeting on March 11<sup>th</sup> <https://indico.bnl.gov/event/22417/>



**Z = [ -105, 143 ] cm**  
**R = [ 55, 60 ] cm**

# New geometry

- Larger radii and longer longitudinal keeping zone
- Need a small change in the module geometry too



$Z = [ -105, 143 ] \text{ cm}$

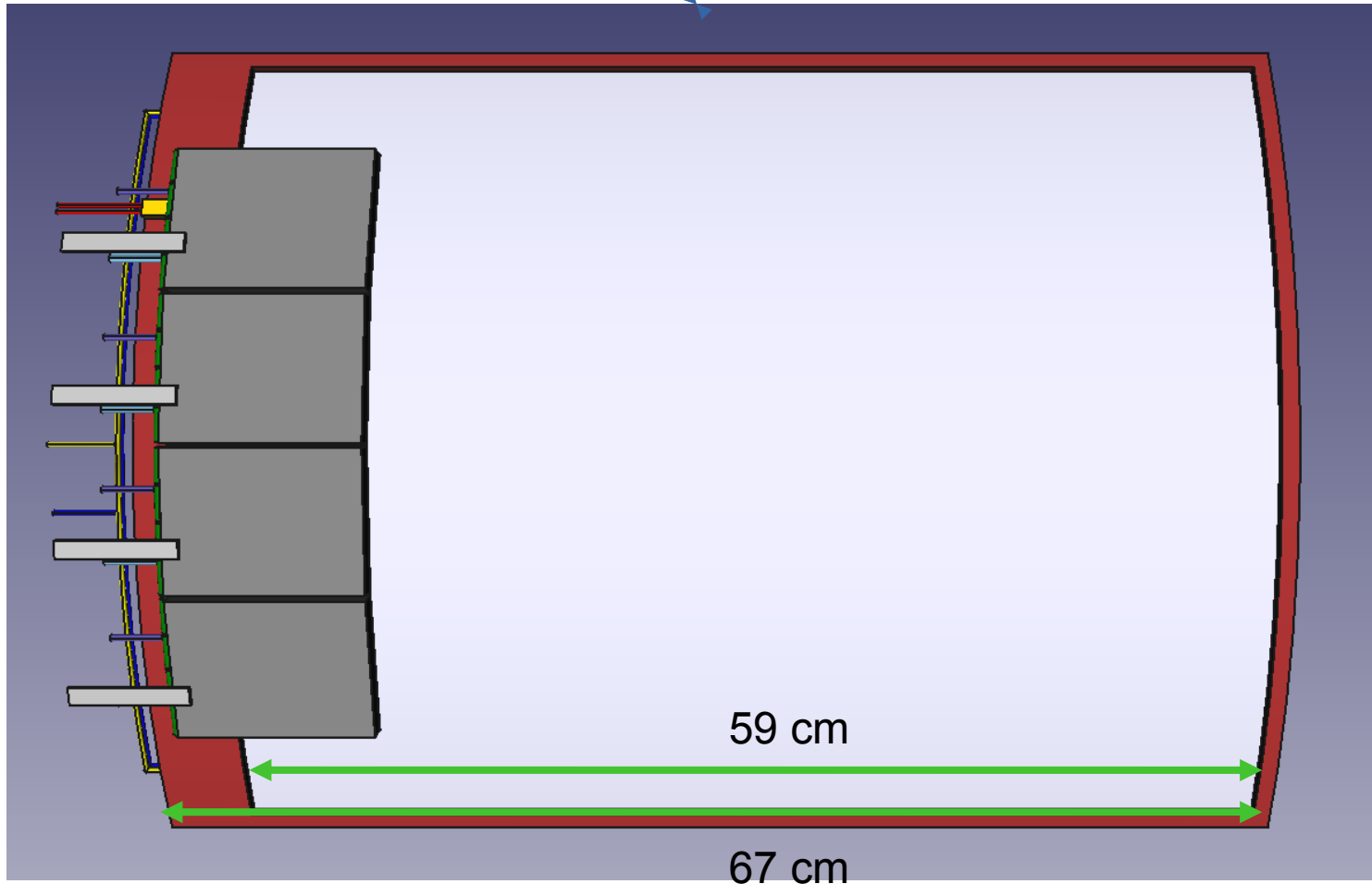
$R = [ 55, 60 ] \text{ cm}$

The two radii for the modules are now

$R = 55 \text{ and } 57.5 \text{ cm}$

# New geometry

- New module dimensions



## Module dimensions

$Z = 67 \text{ cm}$

$R^*\text{phi} = 48 \text{ cm}$

## Active zone dimensions

$Z = 59 \text{ cm}$

$R^*\text{phi} = 46 \text{ cm}$

Keeping the same number of 1024 readout channels, a minimal change of the pitch is applied, still  $\sim 1 \text{ mm}$  pitch