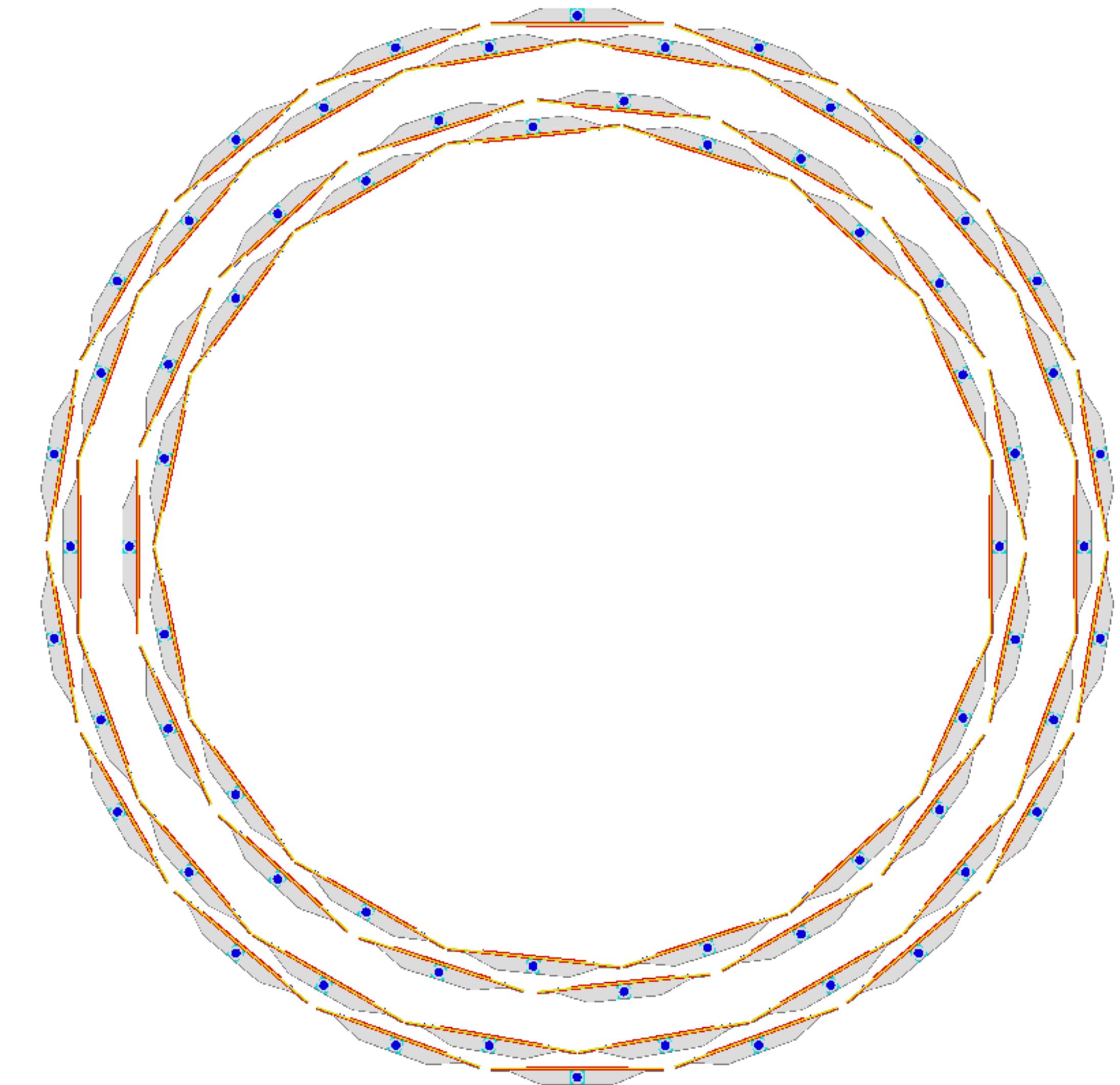
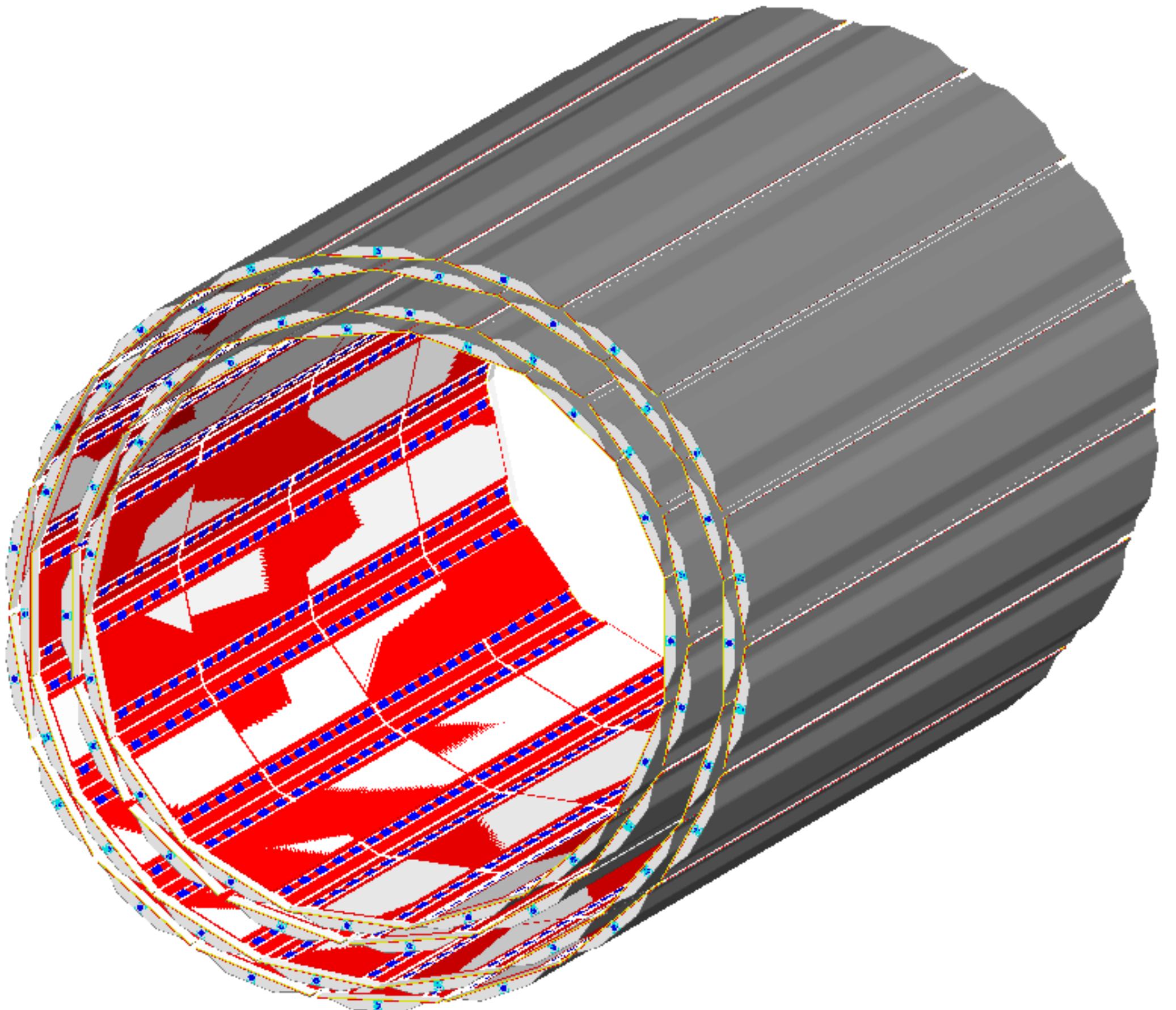


# Description of INTT in Geant4

Genki Nukazuka (RBRC), INTT Bi-weekly meeting, 20/05/2020

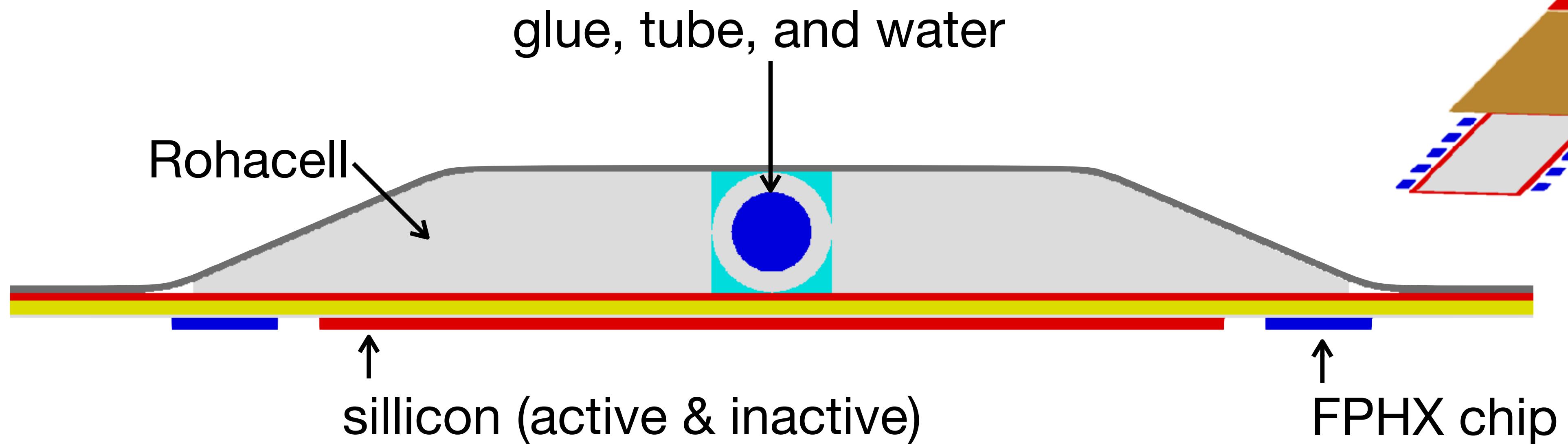
# Current model

Git: commit d06d1d7fb70ae8c4c9bb28a7a50be0be512dcb55  
(master branch, 2020/04/30)

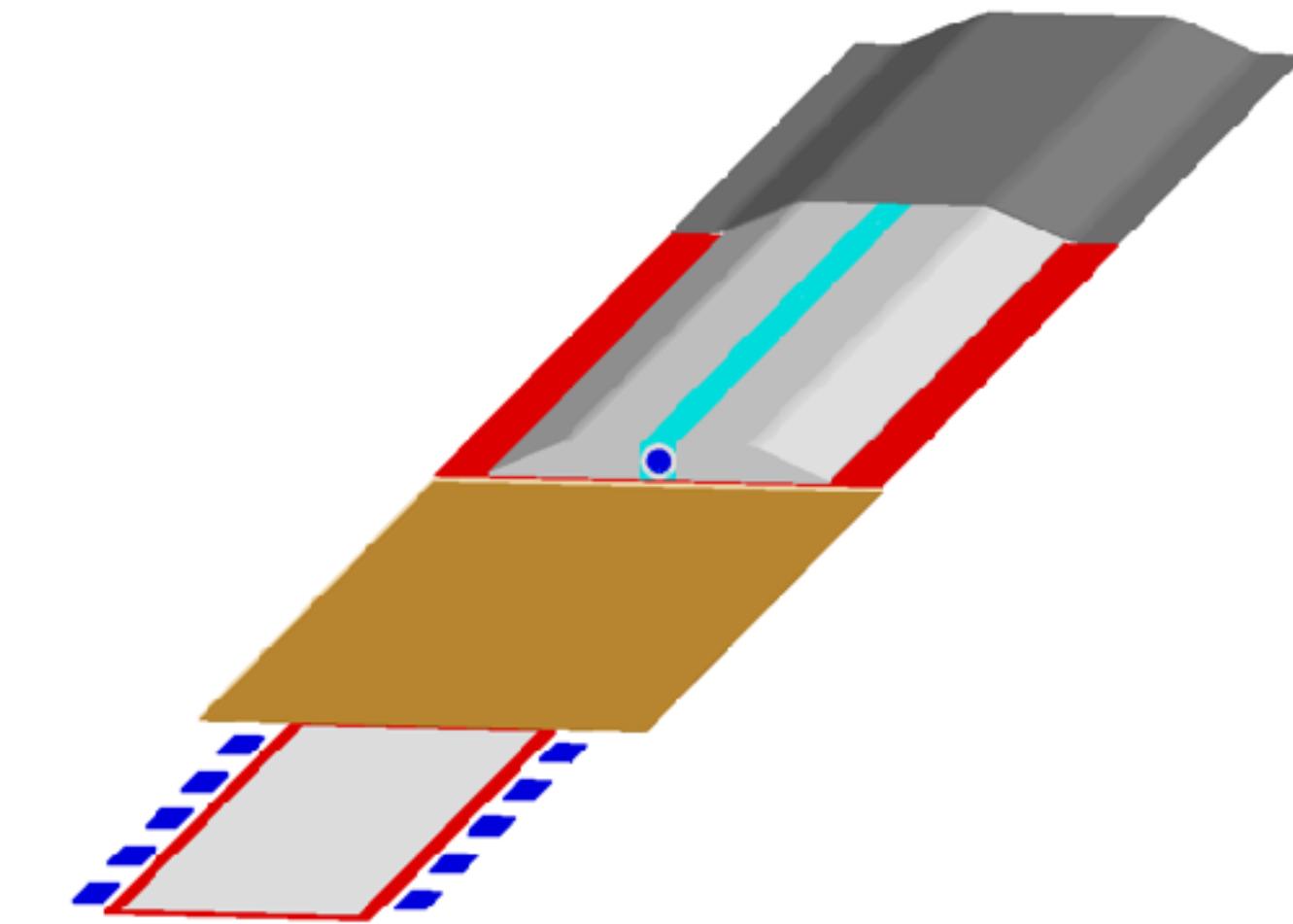
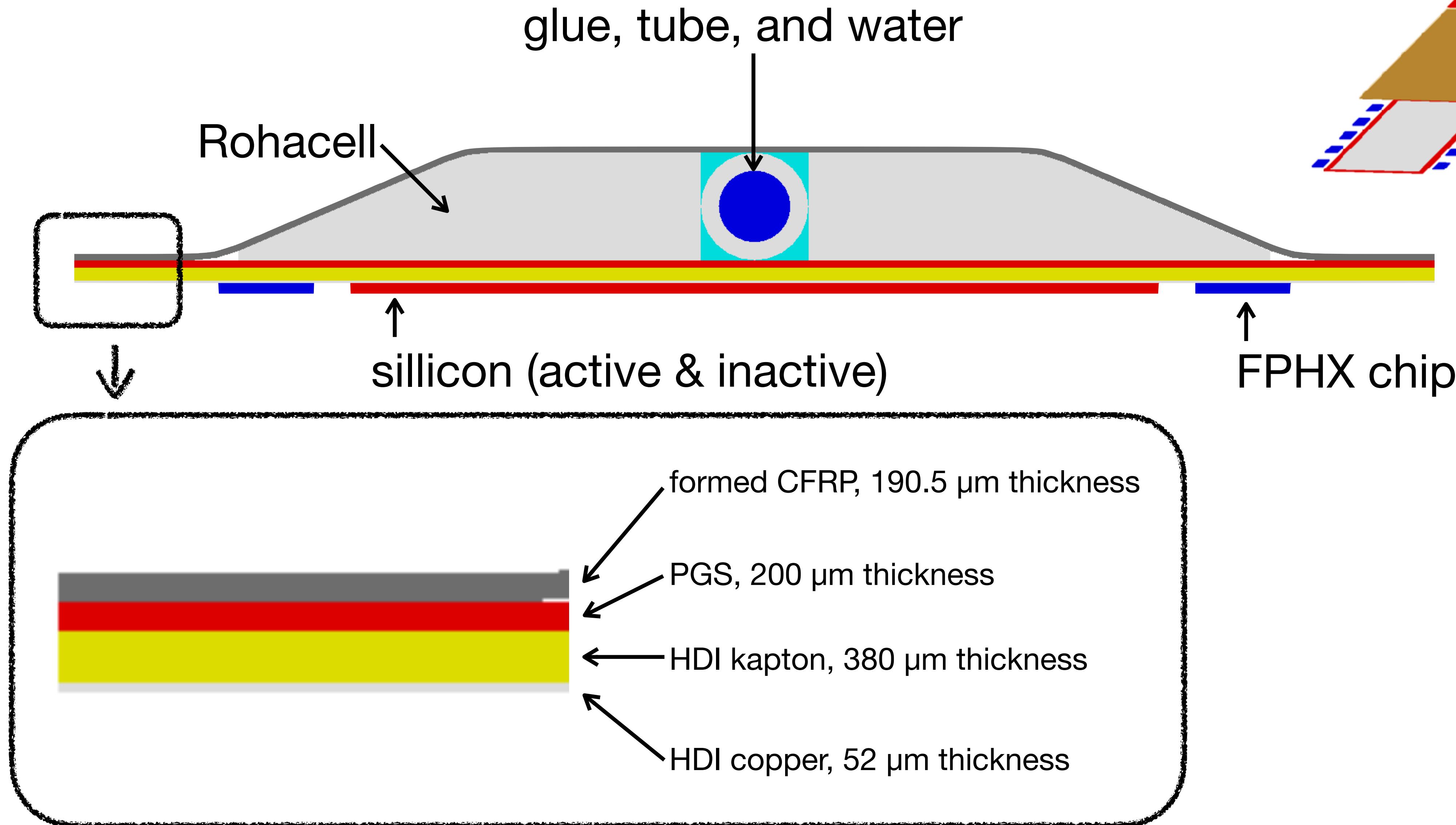


Cross-section

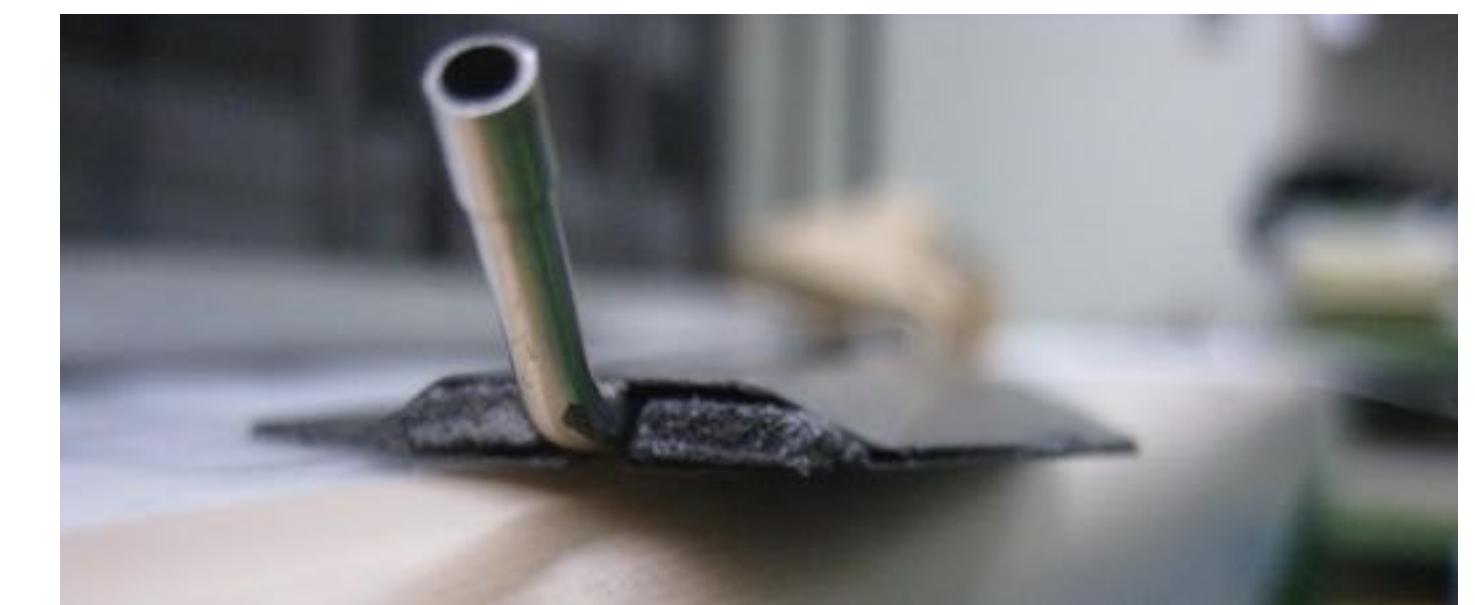
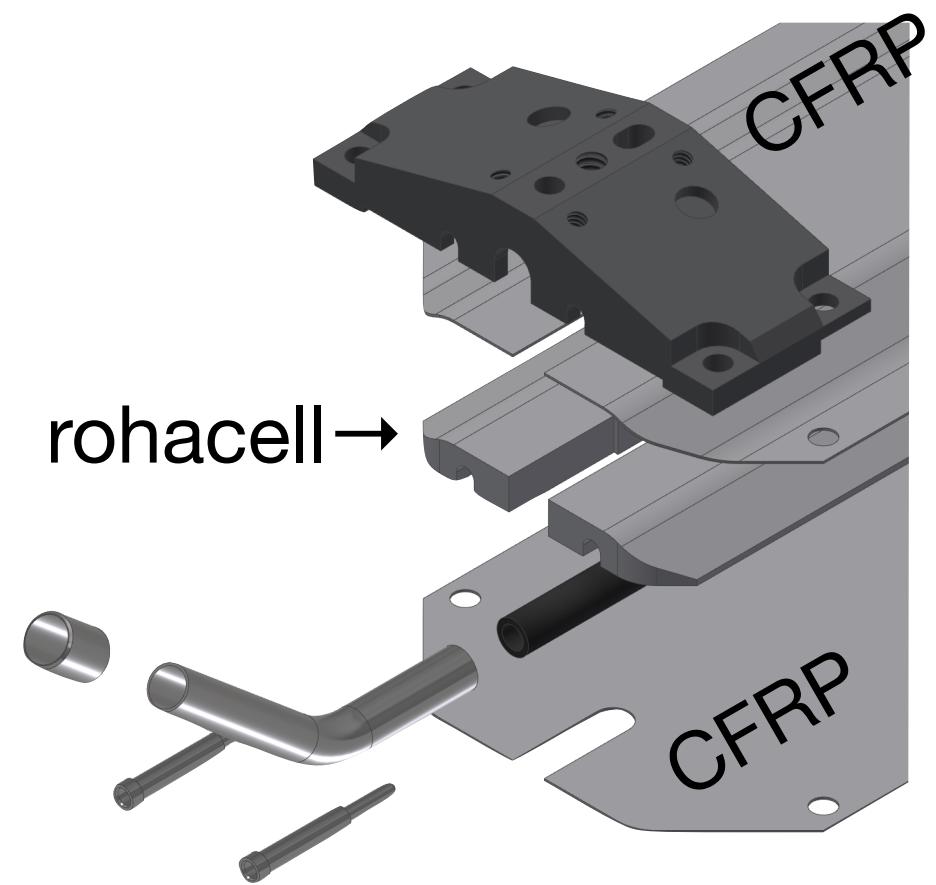
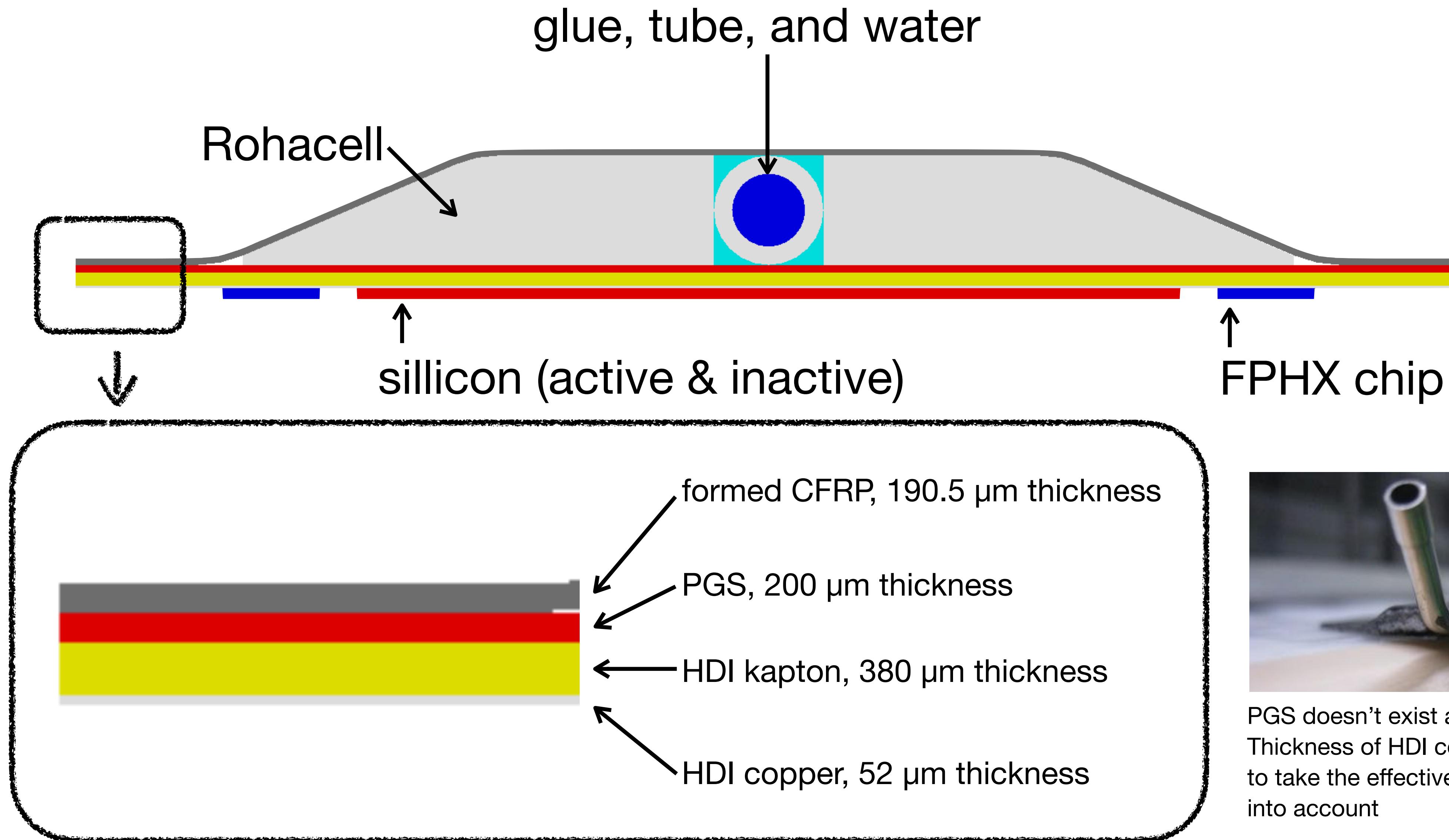
# Current model



# Current model



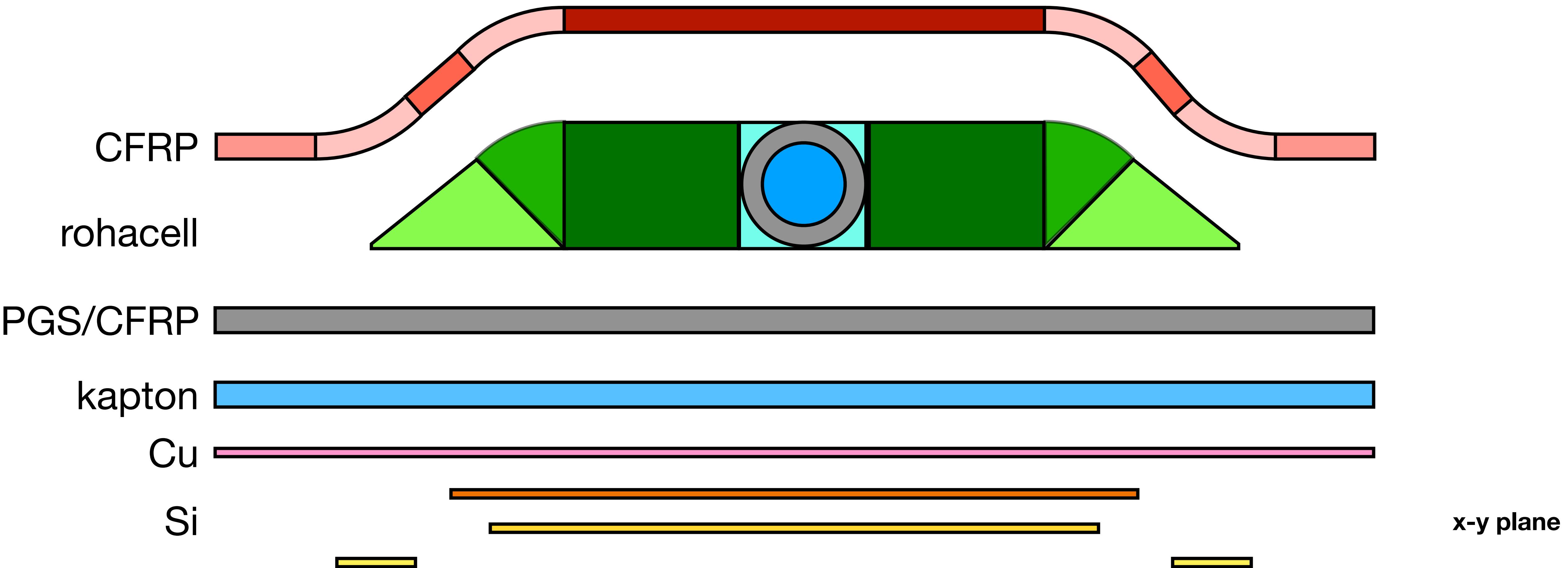
# Current model



PGS doesn't exist anymore.  
Thickness of HDI copper shorten to 37.6 µm  
to take the effective thickness in the acceptance  
into account

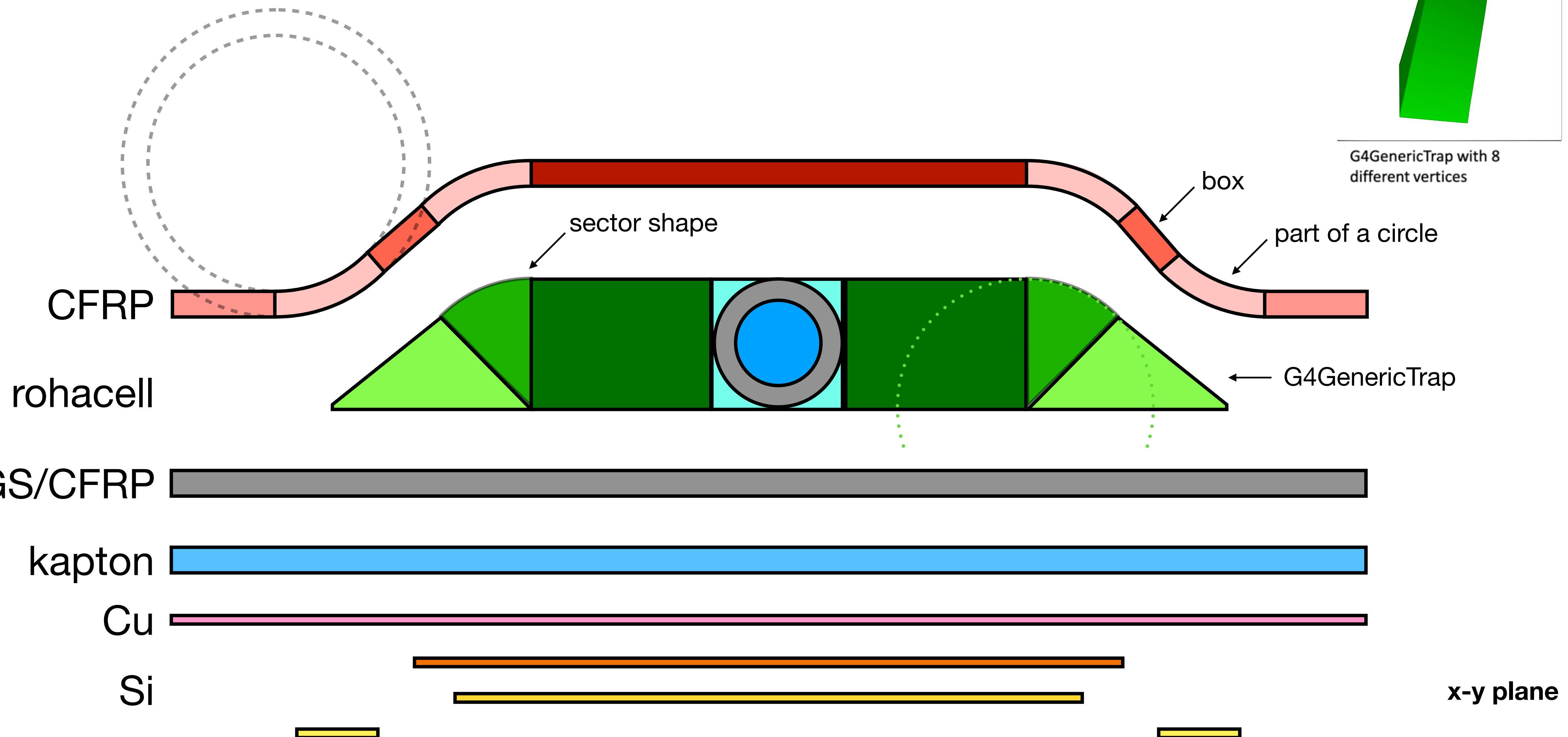
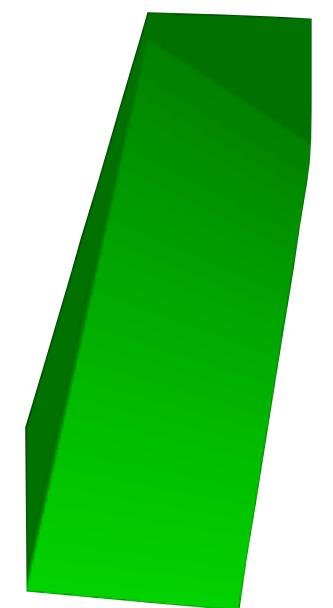
# Actual description

Basically, parts are rectangular.

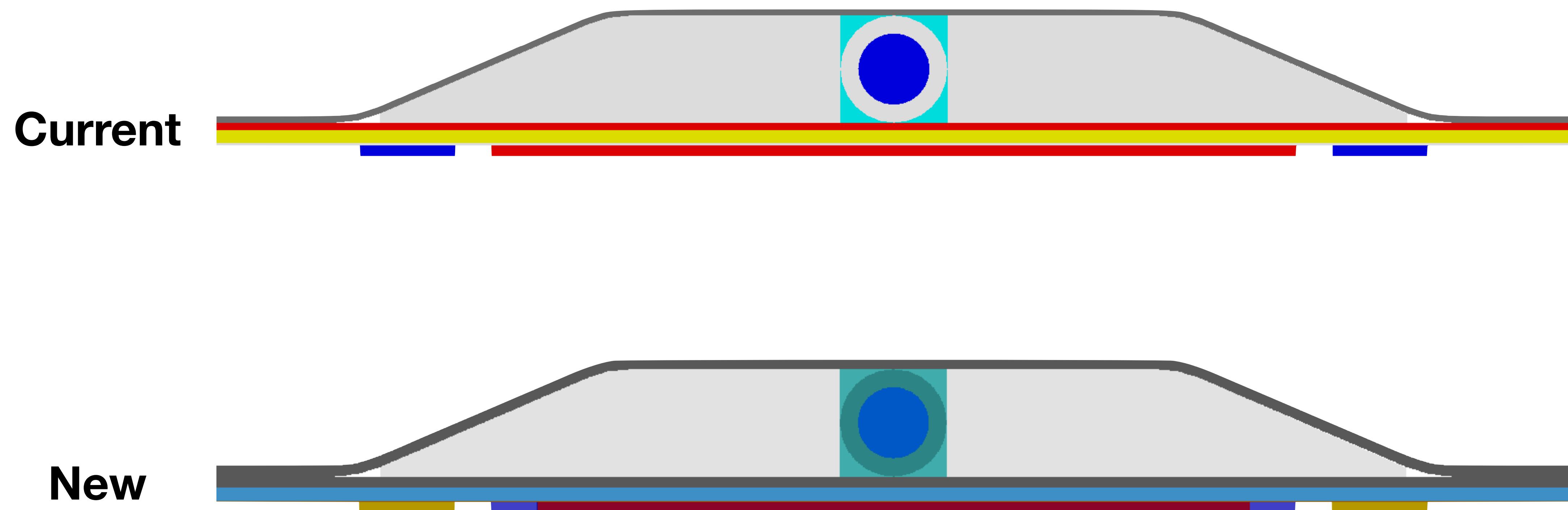


# Actual description

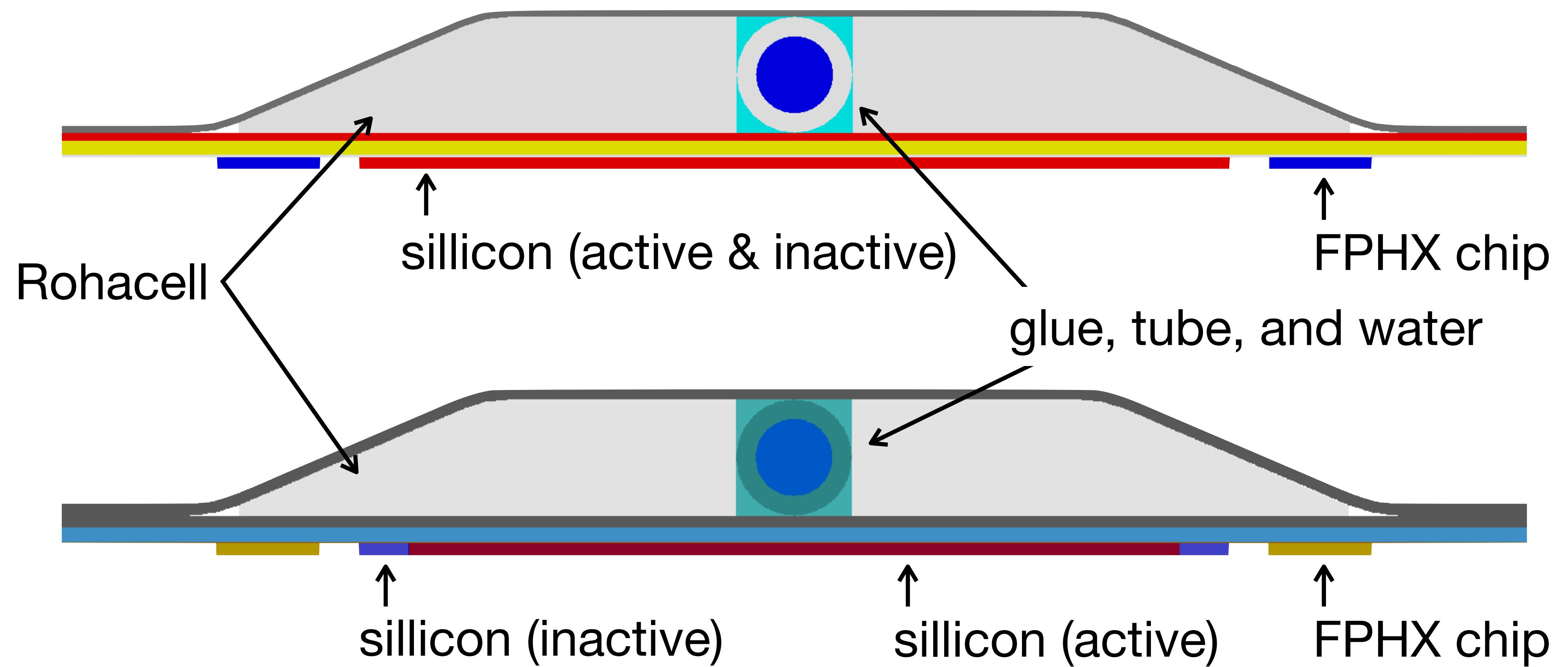
Basically, parts are rectangular.



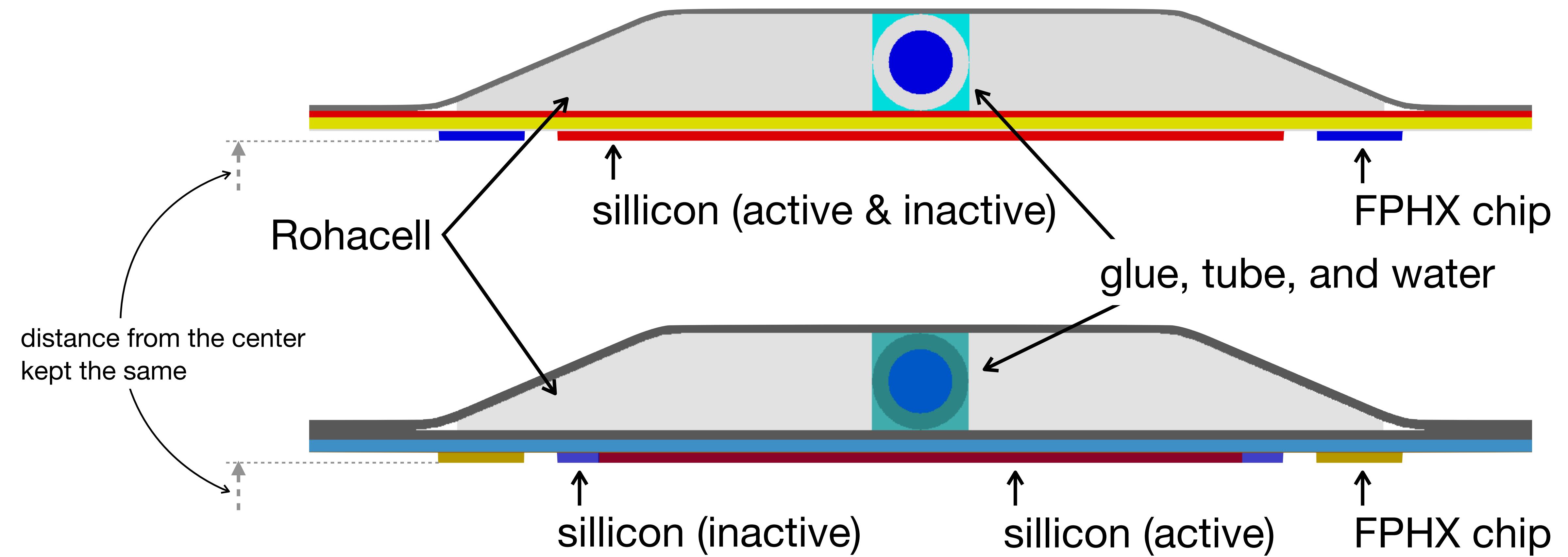
# Updated geometry



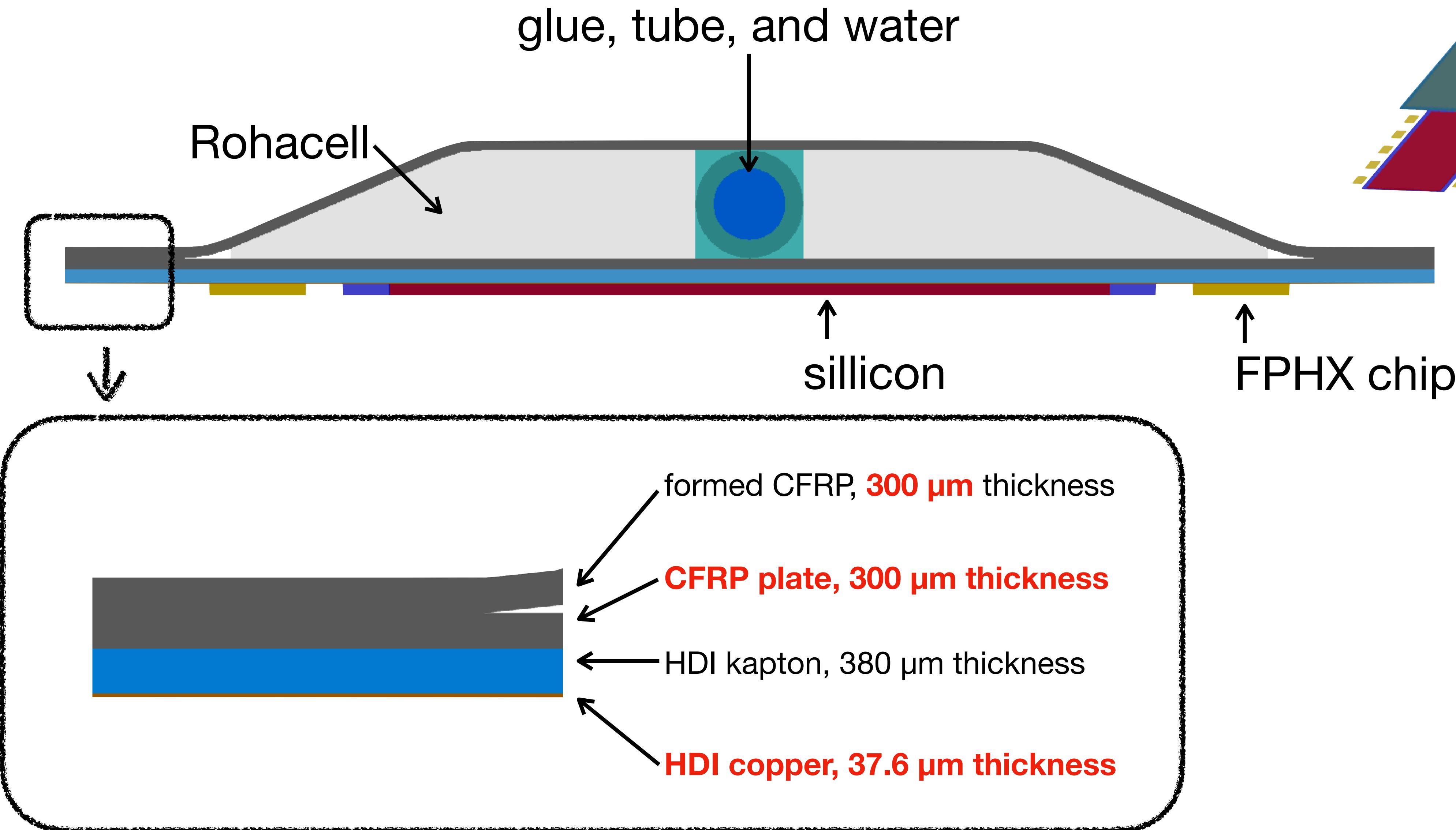
# Updated geometry



# Updated geometry



# Updated geometry

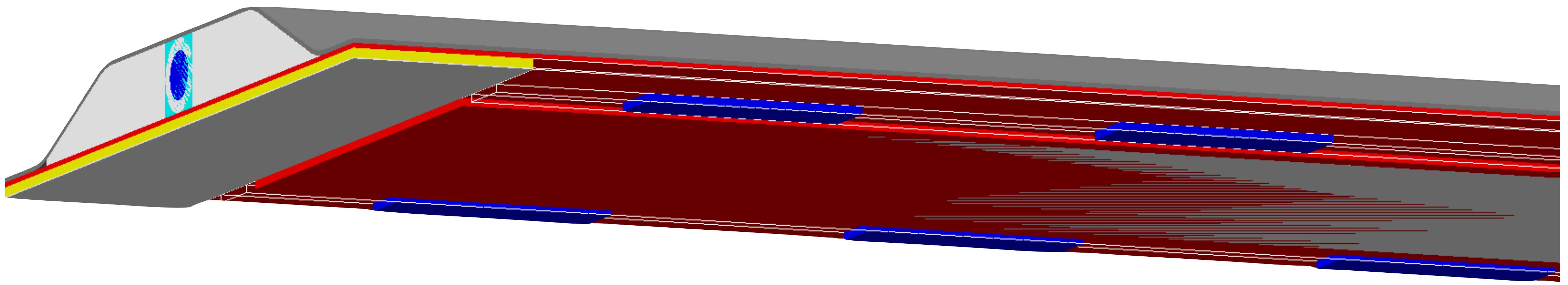
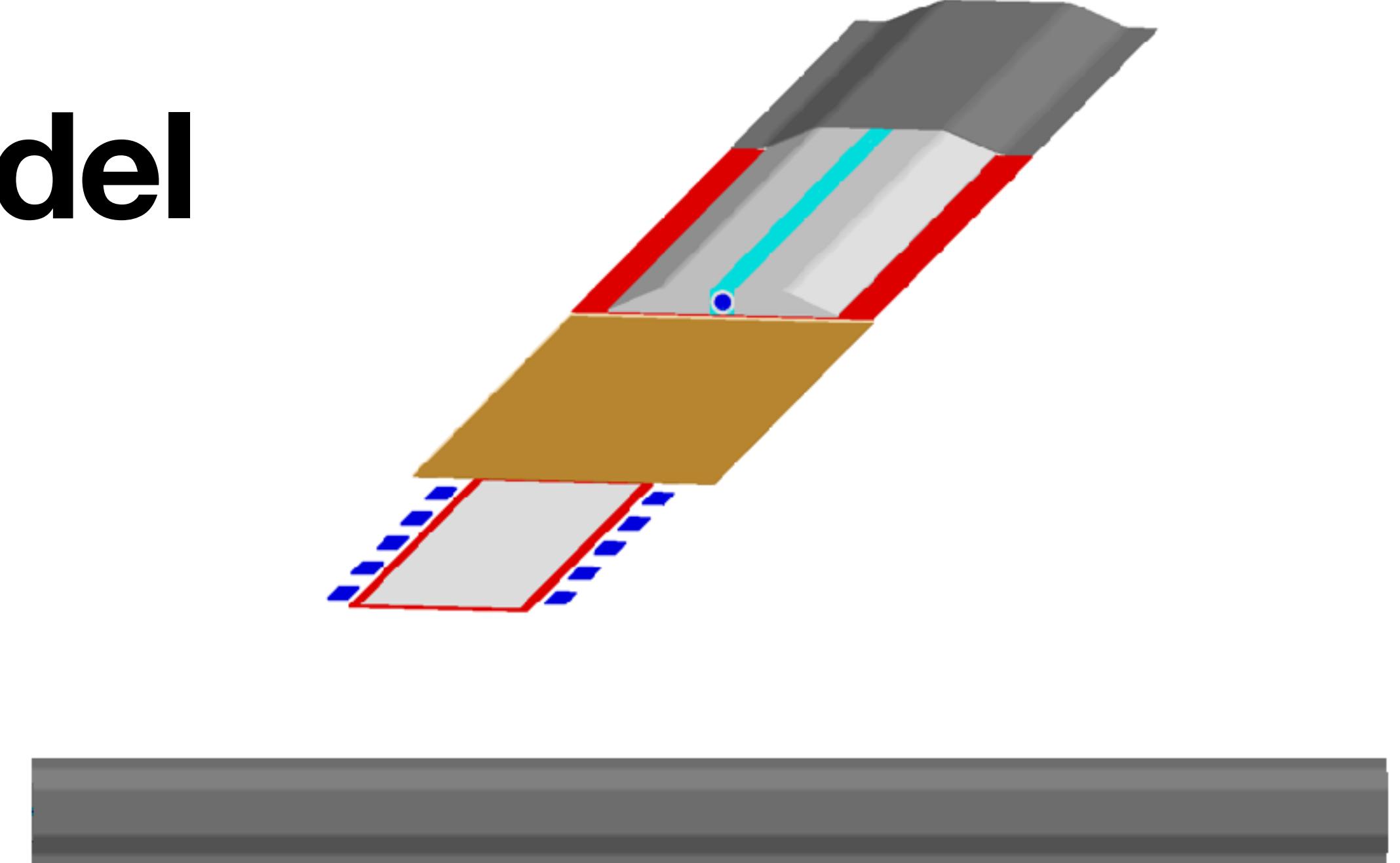
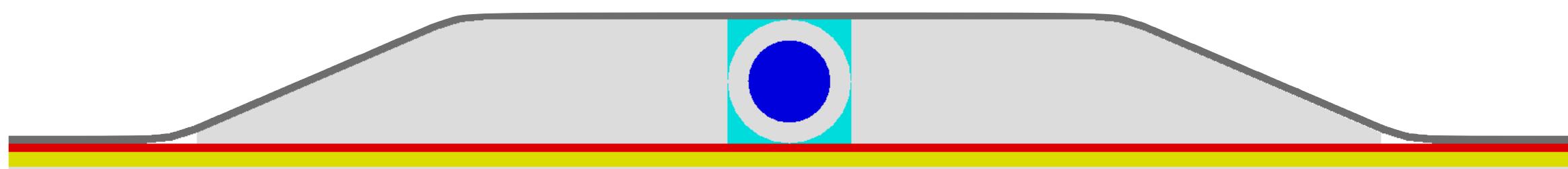


# Next

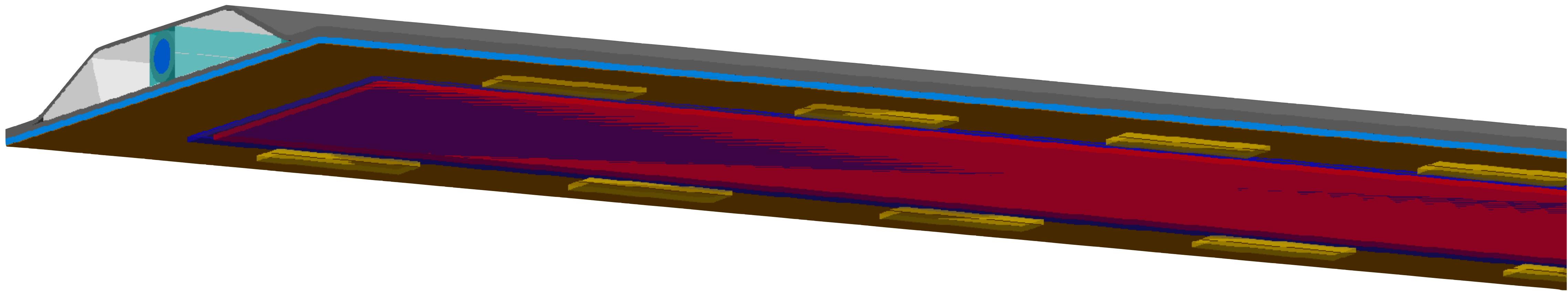
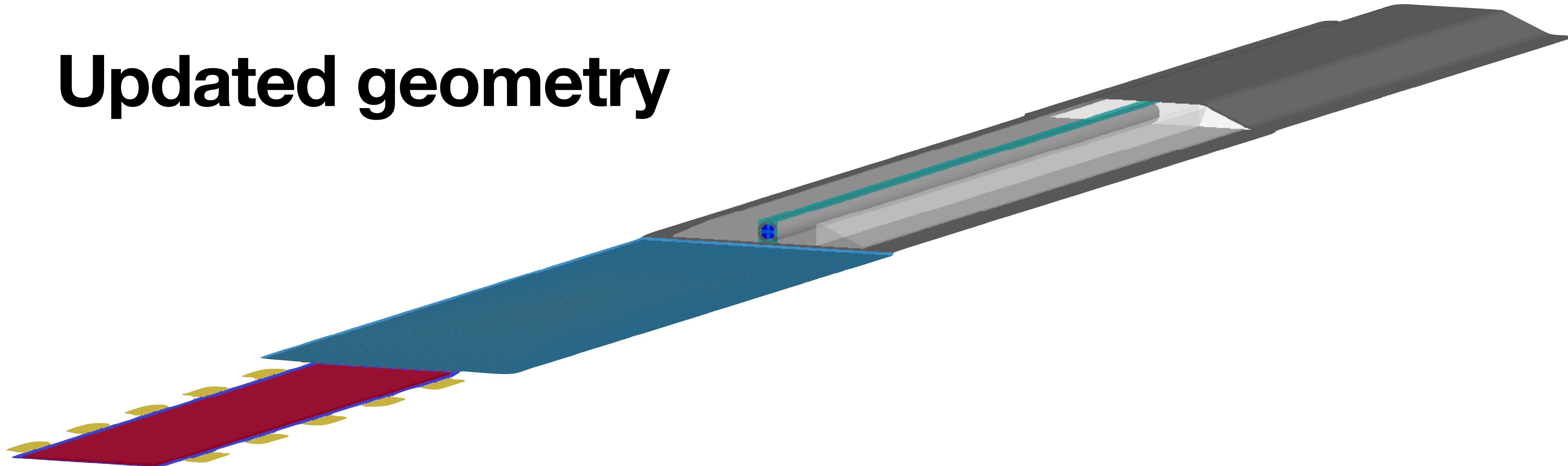
- Cleaning the codes
- Test
- Pull request

**backup**

# Gallery of the current model



# Updated geometry



# Changed parameters

<b>name</b>	<b>before</b>	<b>after</b>	<b>meaning</b>
<b>stave_straight_cooler_x</b>	0.01905 cm	0.03 cm	thickness of the CFRP plates
<b>hdi_copper_x</b>	0.0052 cm	0.00376 cm	thickness of the copper layer in HID
<b>pgs_x</b>	0.02 cm	0.03 cm	thickness of PGS, to be merged to stave_straight_cooler_x
<b>stave_slant_cooler_y</b>	0.6345120525 cm	0.6322614829 cm	length of the slant part
<b>stave_straight_outer_y</b>	0.33451 cm	0.33227 cm	length of the CFRP plates