

TOF questions and concerns

Subject: TOF questions and concerns

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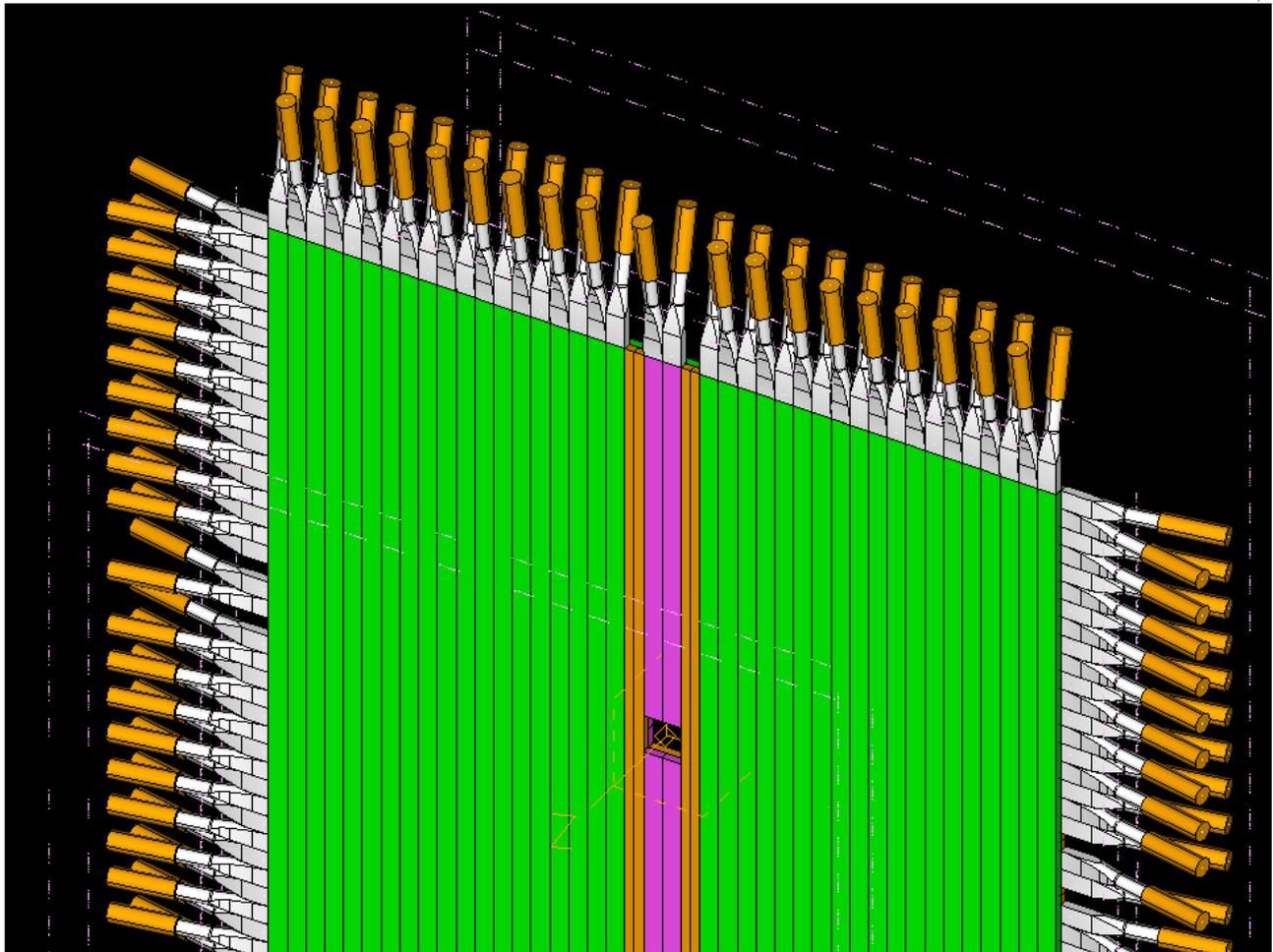
Date: Thu, 01 Sep 2011 15:10:14 -0400

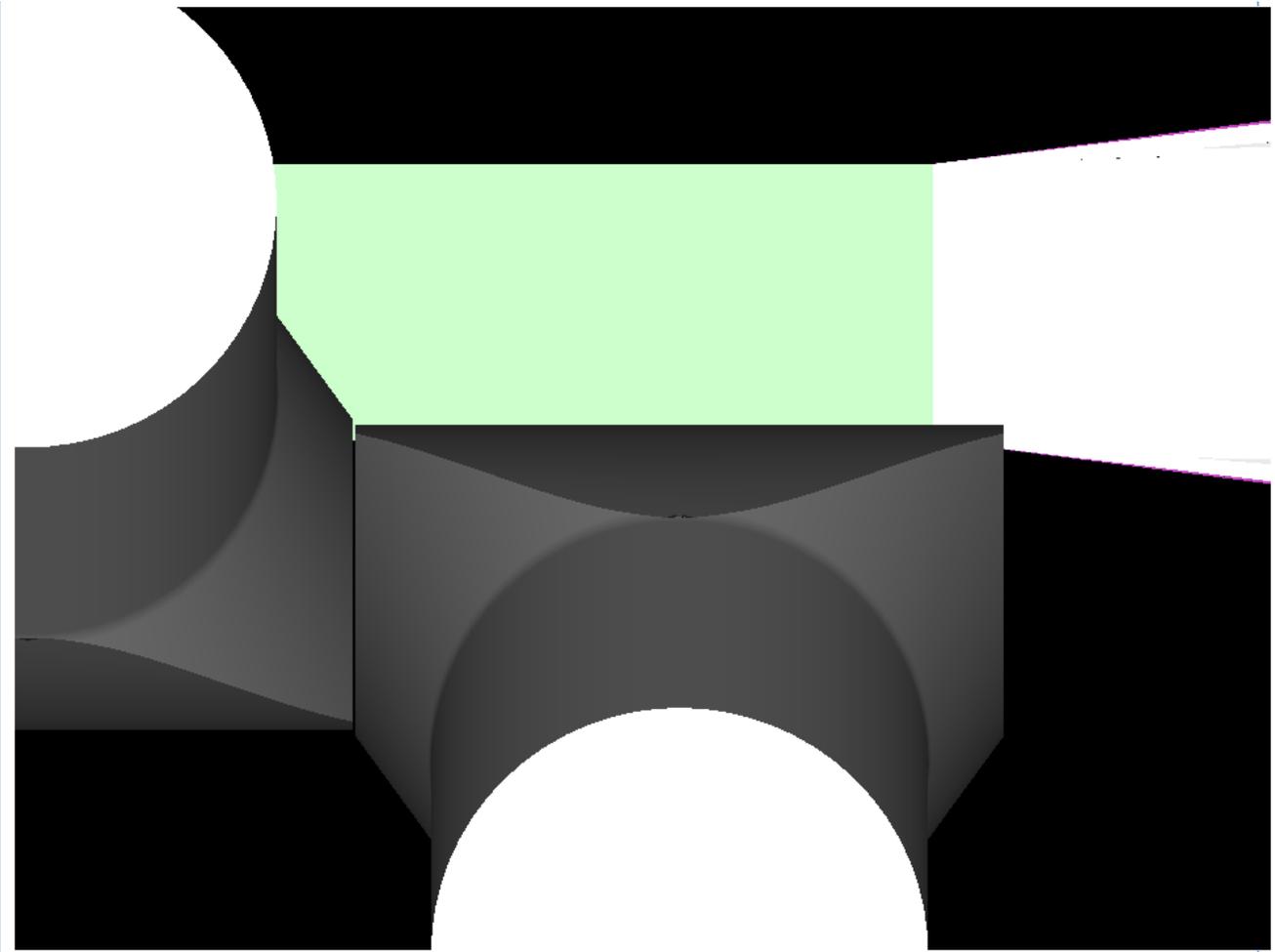
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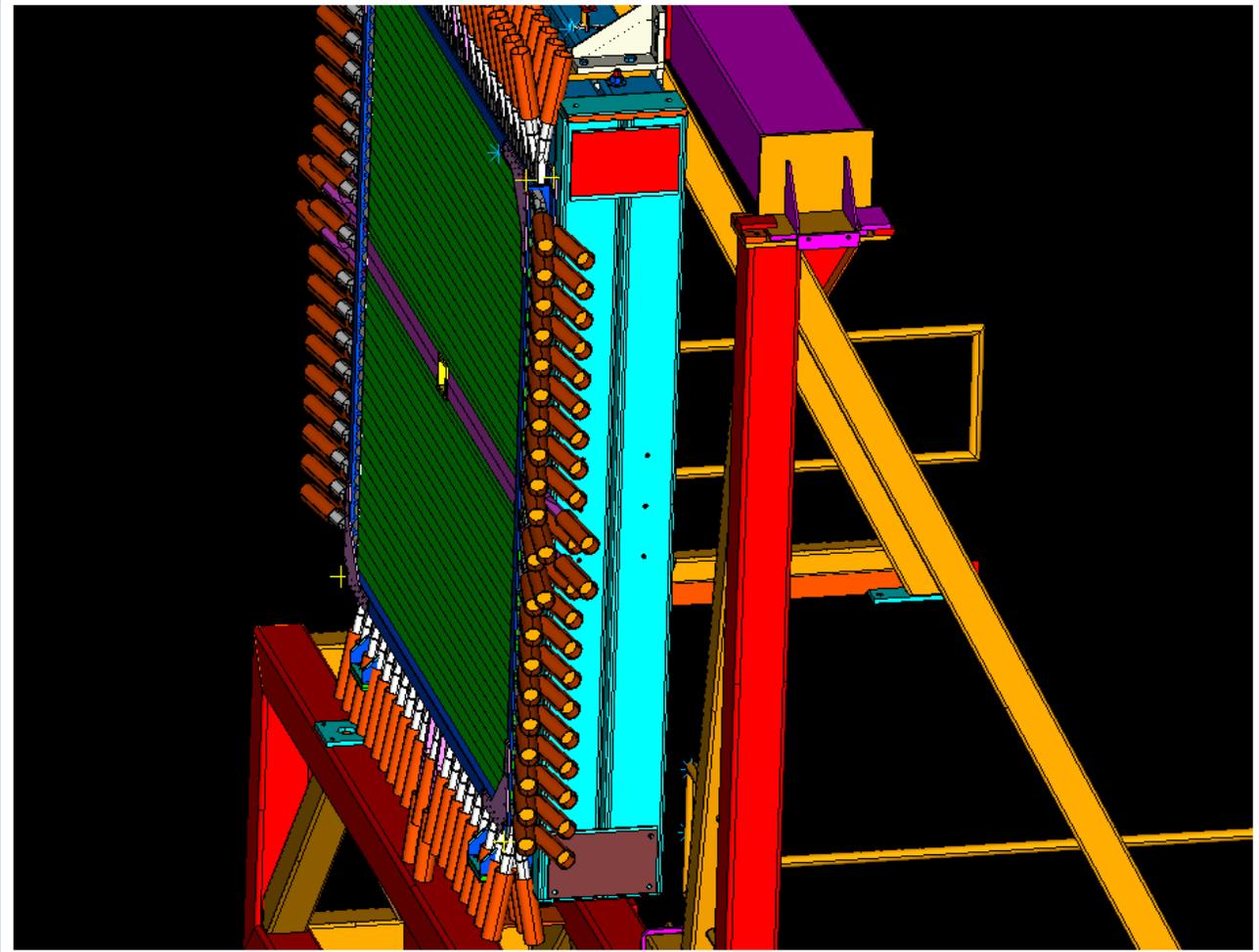
I was hoping to address a problem or two that I have stumbled upon while working on the TOF at today's meeting but e-mail with have to do.

1) The current length of the long paddles are 252cm before adding the light guides to each end. I added in the wrap around each assy @ .006" thick on each lightguide bar assy. The overall width for the vertical layer shown in the picture for example now becomes 253.34 cm instead of 252cm so the two layers are not square anymore. The lightguide bends end up hitting the corner of the bar of the other layer at 252cm. We may have to lengthen the bar maybe another 1.5 cm to accommodate this so the layers can lay flush against one another as originally planned.

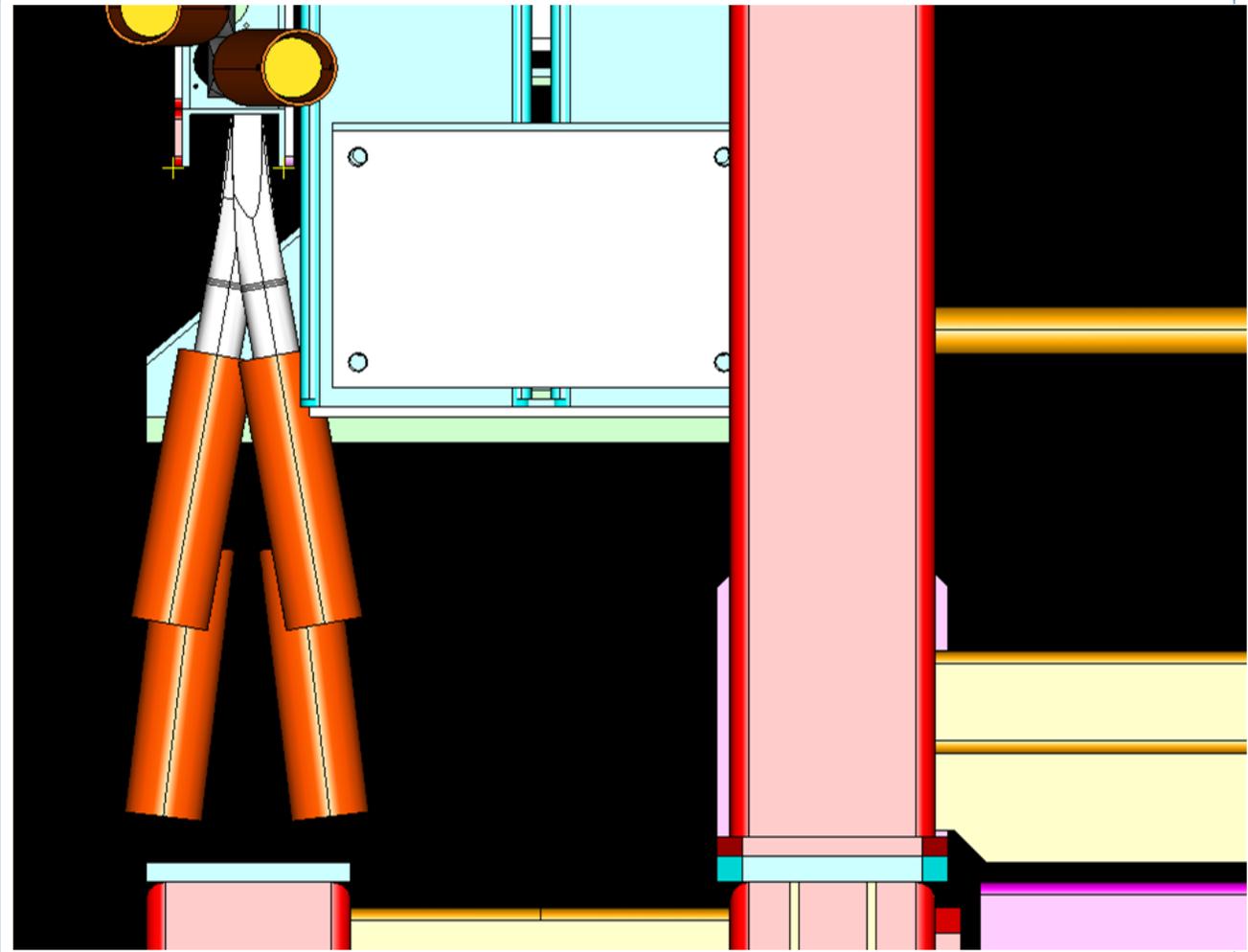




Another issue that I am noticing is that with the fishtailed light guides we may need to increase the space between the TOF and FCAL movable platform in regards to the mounting because of this also. It appears that the lightguides/shields in the vertical plane clip the corners now that they are angled verses straight. We may need to put a little more space in between them if possible.



And last, the split lightguides stick out of course a lot further than the others. This may or may not be a problem in the bottom section as far as room for the wires etc, to come out. This is true only at the bottom of the TOF.



Please give your thoughts and opinions on these matters.

Thanks
Chuck