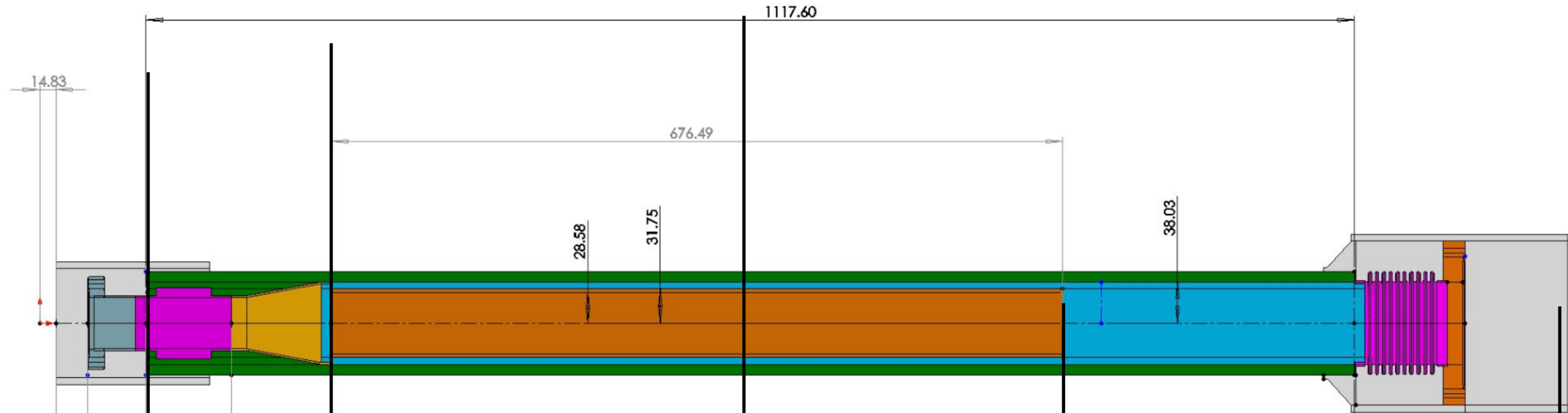


# Version 1.0 of the Septum Pipe



1.48 10.3 27.3 69.3 95 *z (0 at pivot) [cm]*

140.9

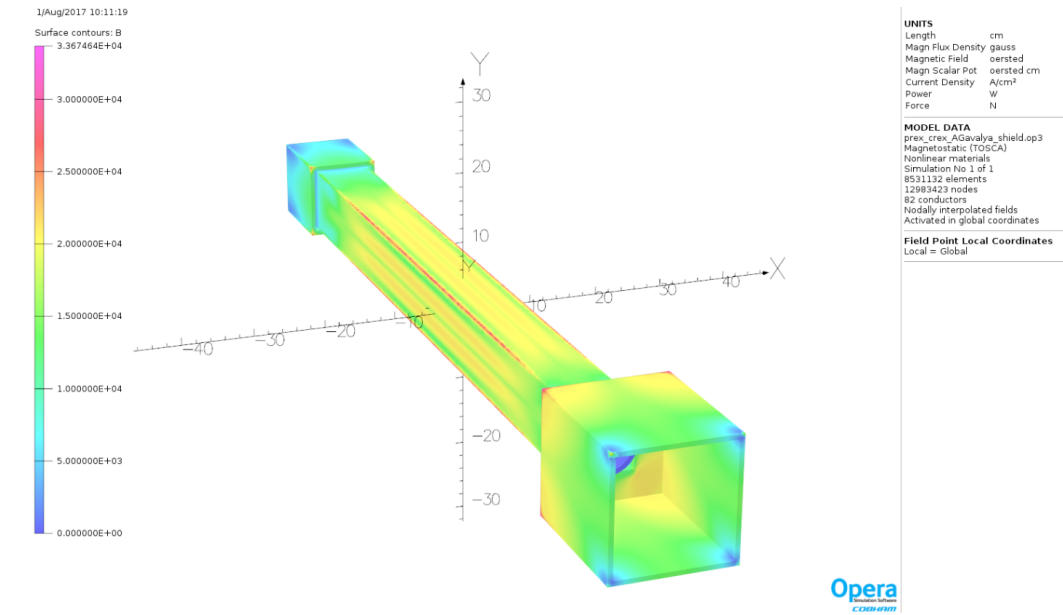
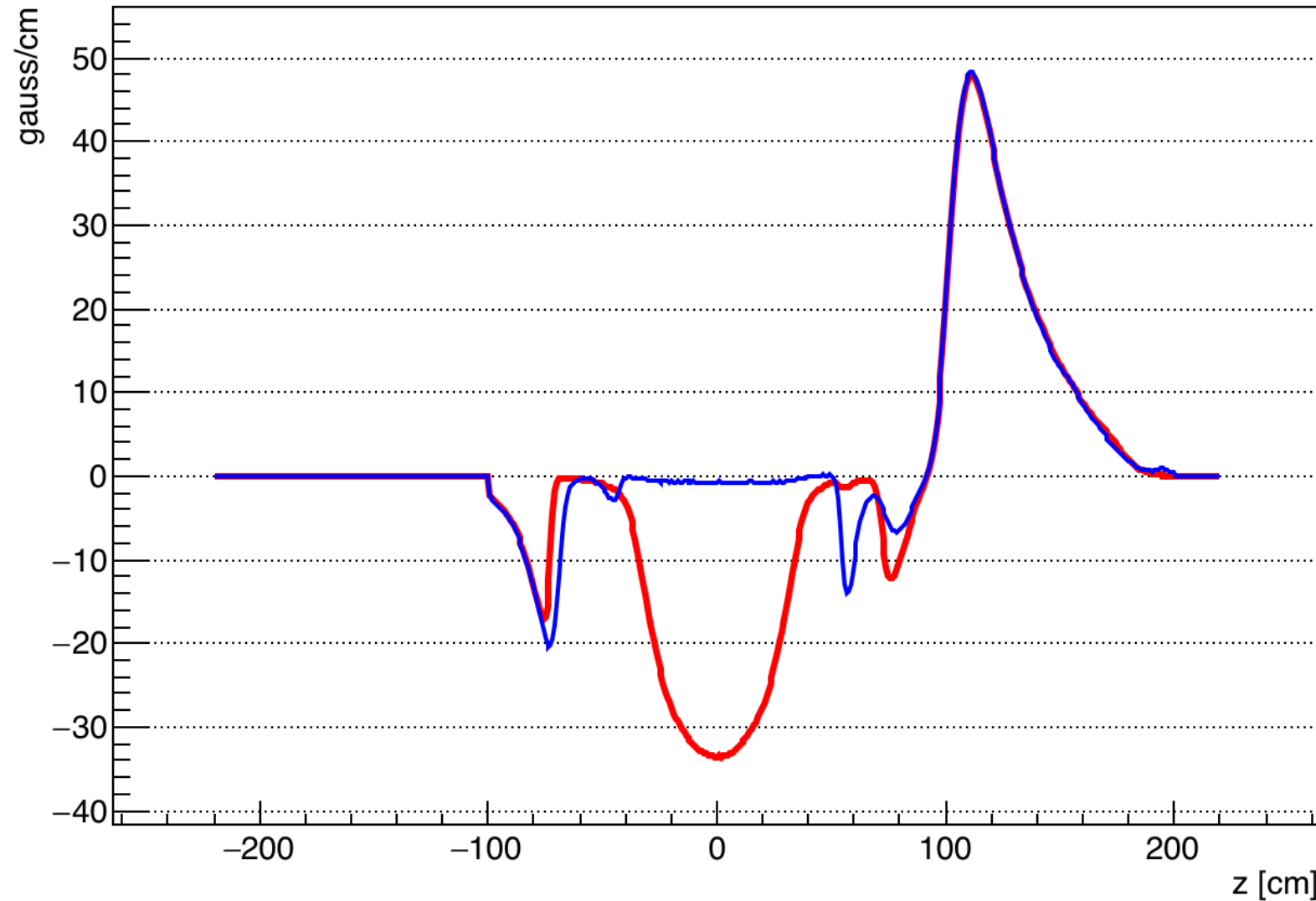
-67.8 -59 -42 0 25.7 71.6

*z (0 at center of septum) [cm]*

# Version 2.0 of the Septum Pipe

# Fringe field comparison

dBx/dy for crexUpdatedSeptumShield\_allOn configuration at(-1cm,0,z)



## Information sent to Jay:

- \* the green box is carbon steel extends Z[-59,53]cm and has the top/bottom ~ 0.55" thick, 1.5" IR, and the sides are ~0.15" thick and 1.5" IR
- \* the blue pipe is carbon steel extending Z[-42, 53]cm, 1.5" OR, 0.25" thickness
- \* the orange pipe is additional carbon steel extending Z[-42, 26]cm, 1.25" OR, 0.125" thickness
- \* the grey box US: carbon steel, Z[-68,54], 0.25" thickness, and the transverse dimensions are in the attachment (5.05 cm inner side length vertical, 4.68 cm inner side length horizontal)
- \* the grey box DS: carbon steel, Z[53,73], 0.25" thickness, square with 7.6 cm inner side length

- Jay notes:
  - The field in the plate which bridges the inner and outer boxes at the downstream end is high because I made it only 4 mm thick 1/4" would be fine.
  - Made the interface from four piece of 1.75"x1.75"x0.25" angle iron instead of the fancy truncated pyramid. 3/16" angle is 4.7mm so it would probably work too, but everything else is 1/4" so stick with that.
- We can see that additional fringe at the center of the septum is completely removed