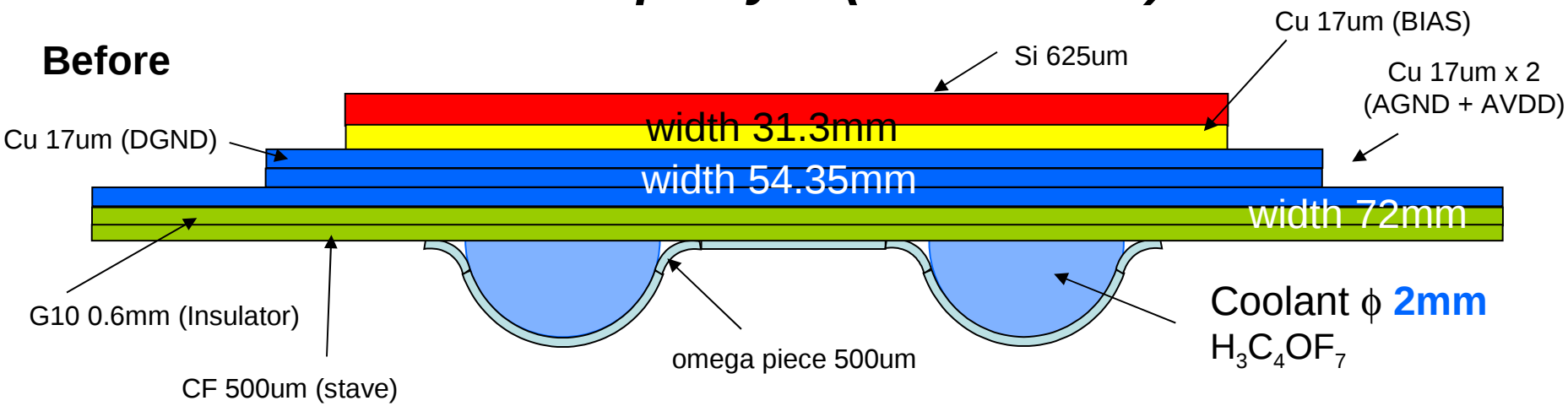
Modification of Stripixel Geometry in PISA

23th Jun 2009

Maki Kurosawa

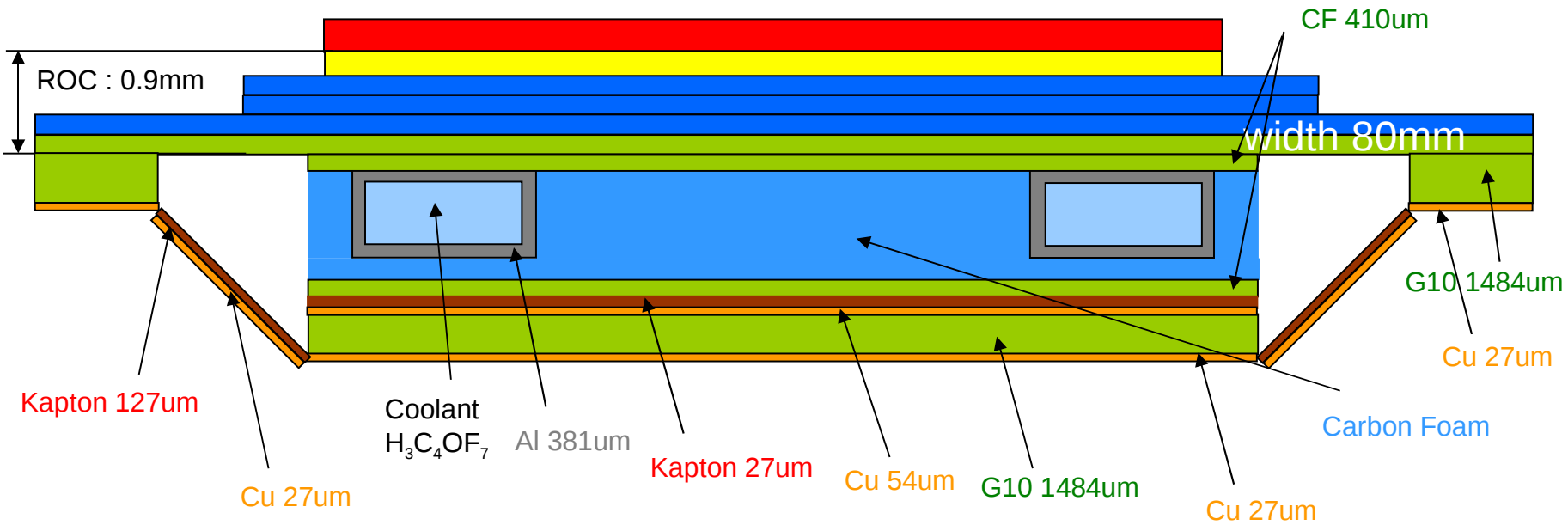
Modified Medium for Strip Layer (ROC3 ½ oz)

Before



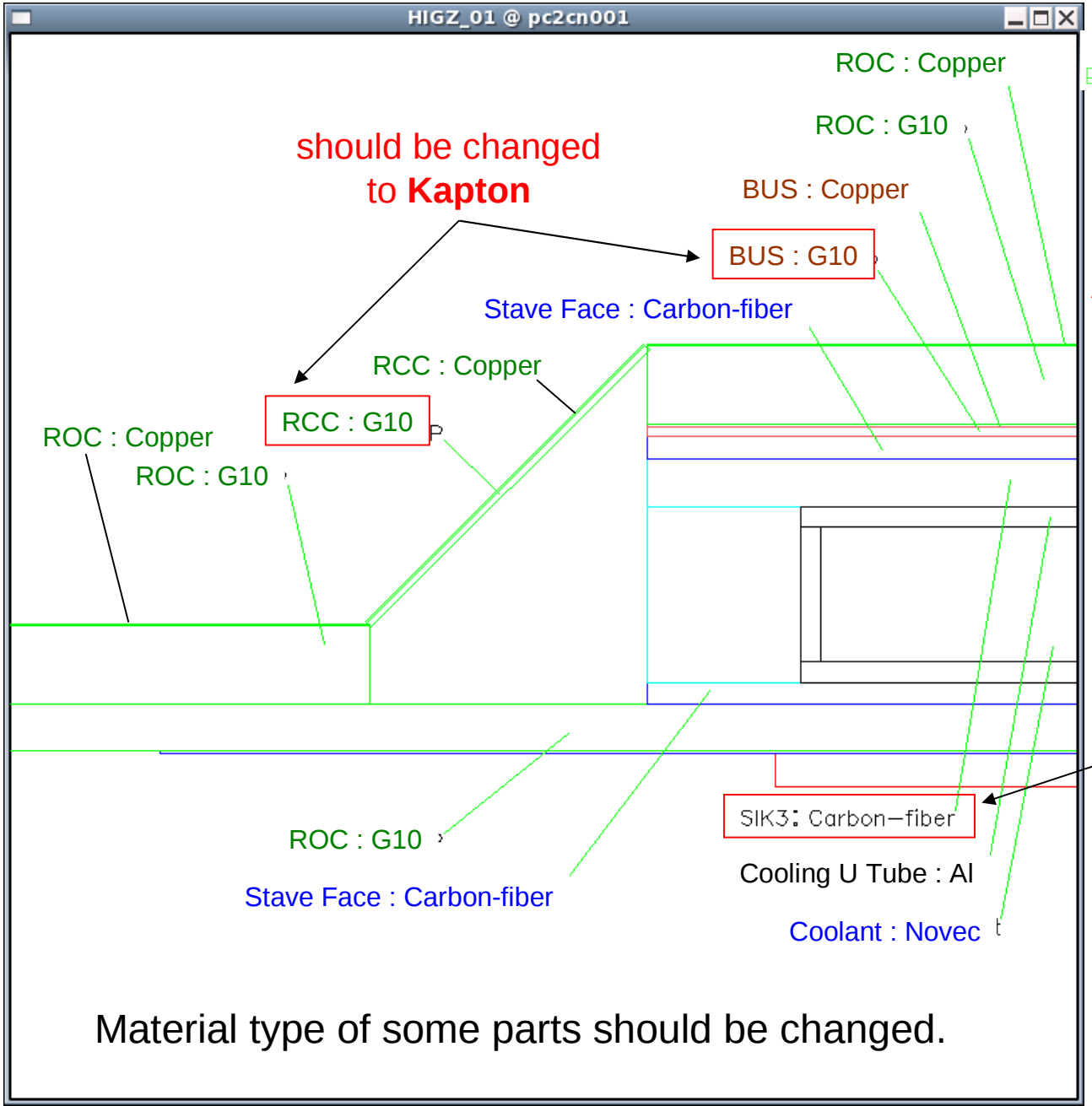
total = 1.95 + 1.25*1.3 ~ **3.6 (%)**

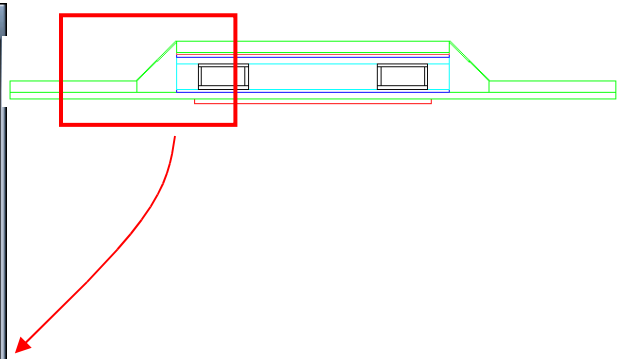
After



Modified stave structure.

Cross Section of Stripixel Layer in PISA



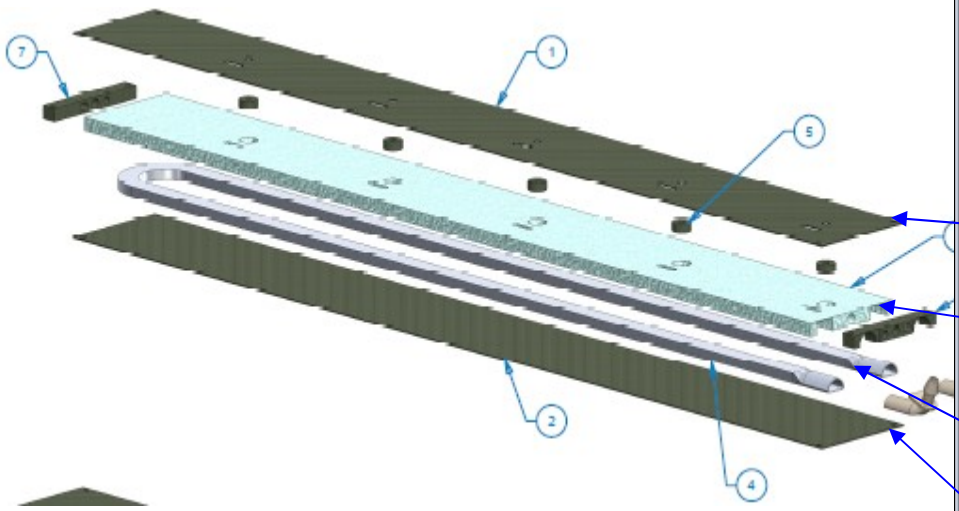


should be changed
to **carbon foam**

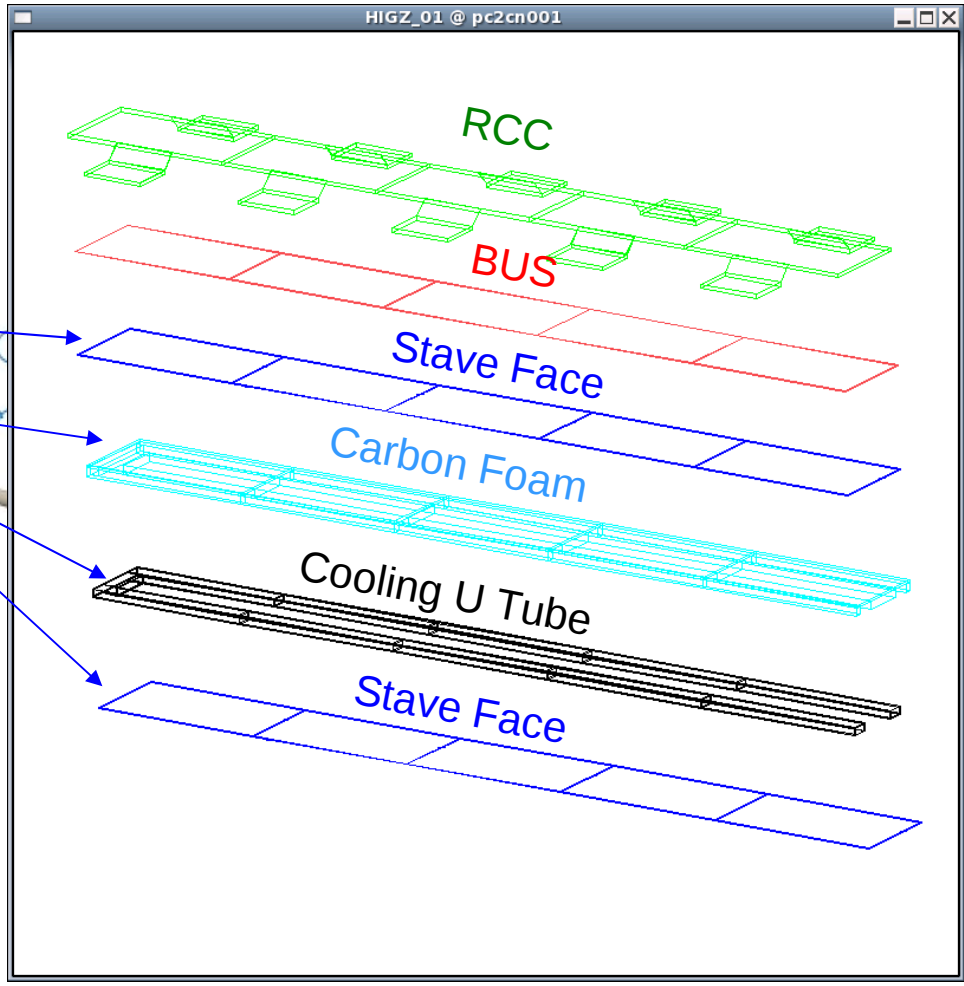
Material type of some parts should be changed.

3D View of Stripixel Stave

Drawing from HYTEC
(Thanks Walter)

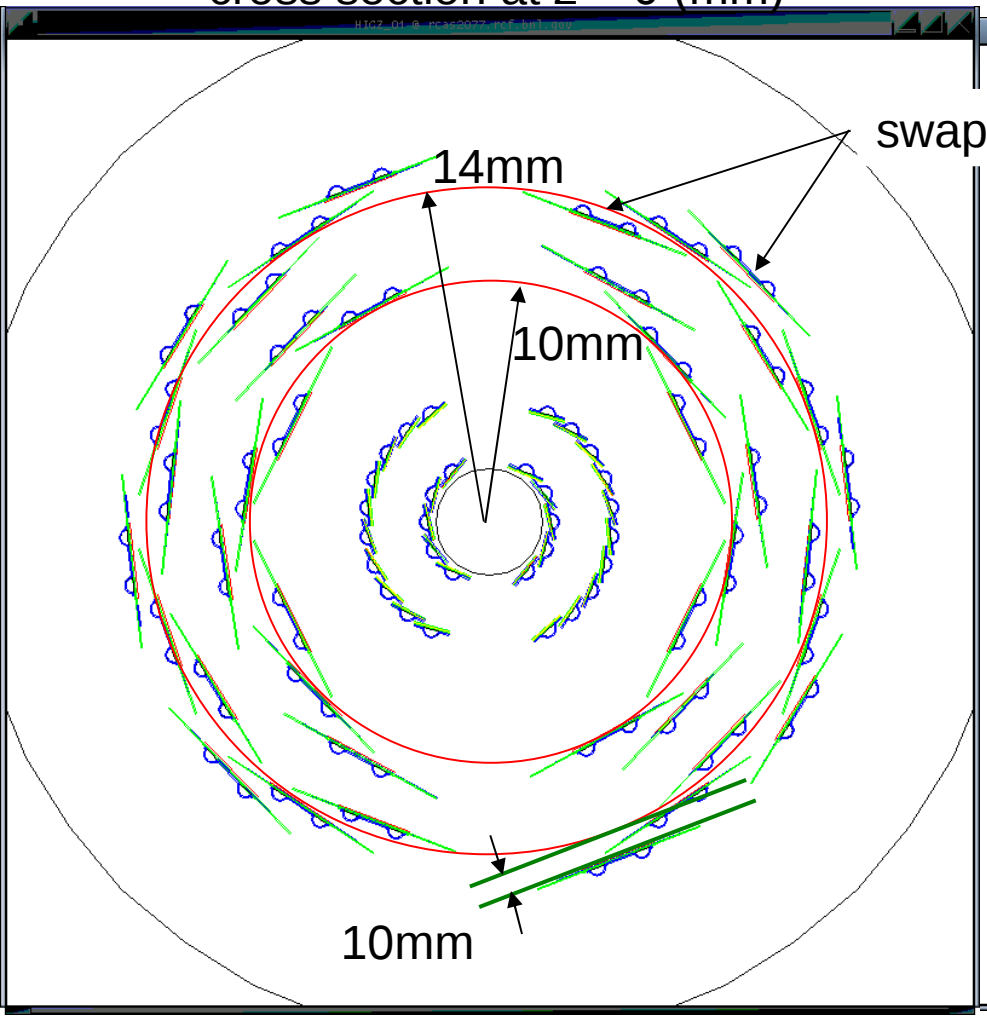


PISA code (Layer 3)

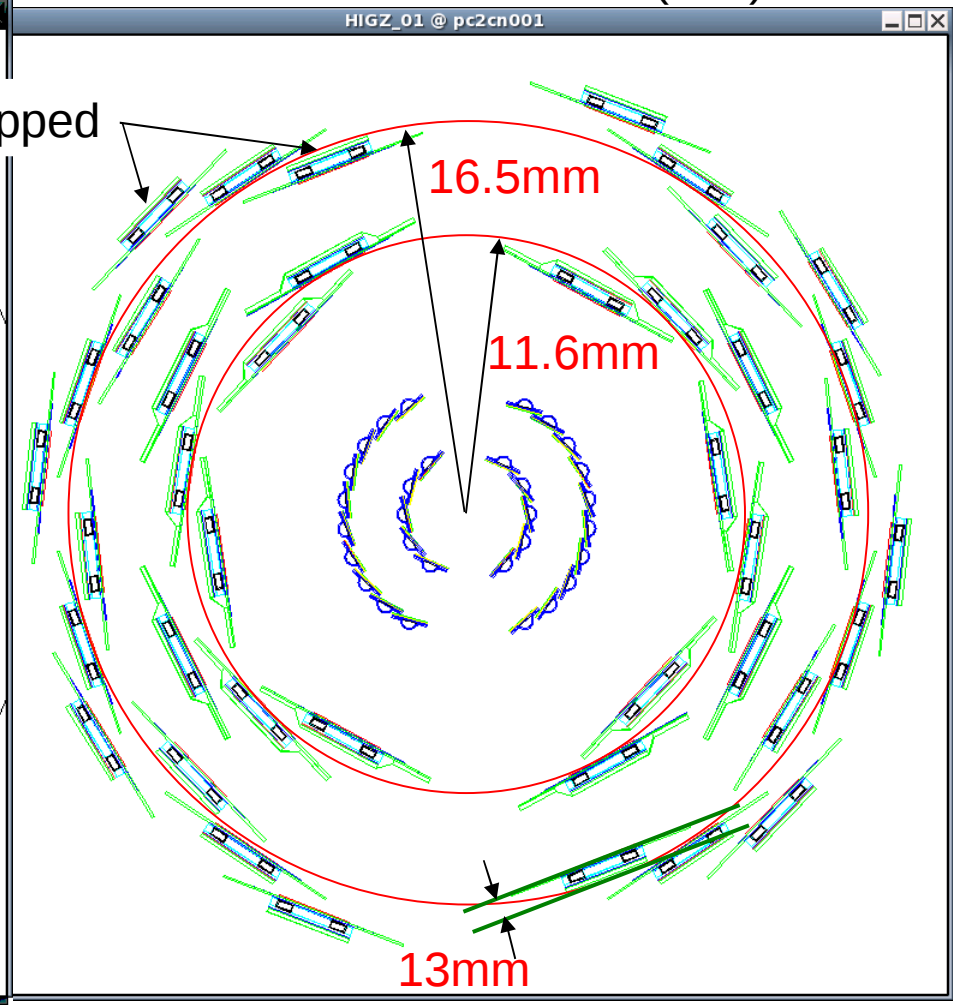


Cross Section Stripixel Layer in PISA

cross section at z = 0 (mm)



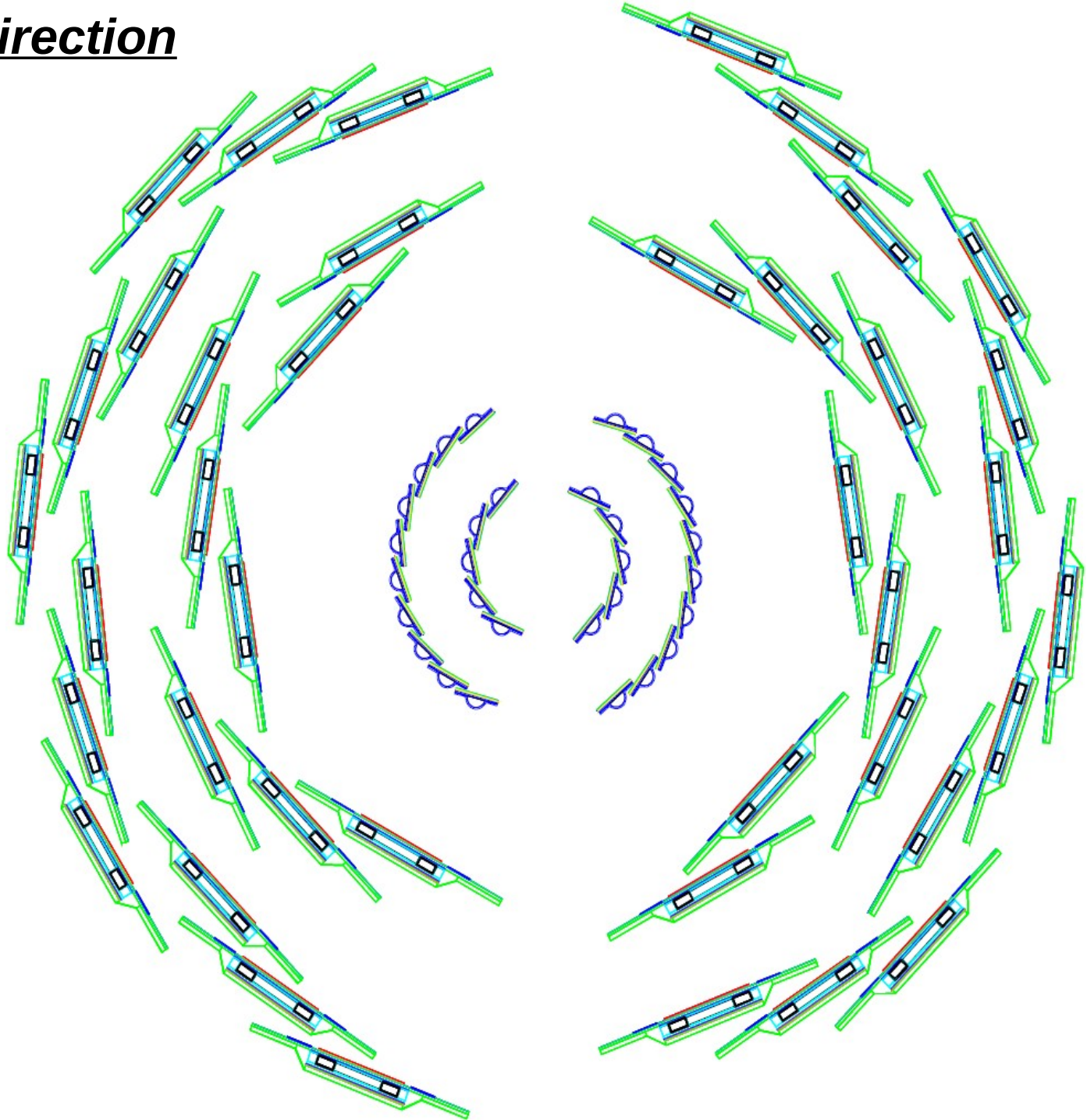
cross section at z = 0 (mm)



- Swapped staggered ladder for stripixel layer
- Modified the azimuth radius for stripixel sensors
- Changed the staggered distance from 10mm to 13mm.

Summary and To-Do

- Implemented current geometry of stripixel ladders.
- Change the material type of cable, BUS and carbon foam.
- Make a plot of radiation length distribution.
- Commit to CVS.

Backup

Beam Direction