

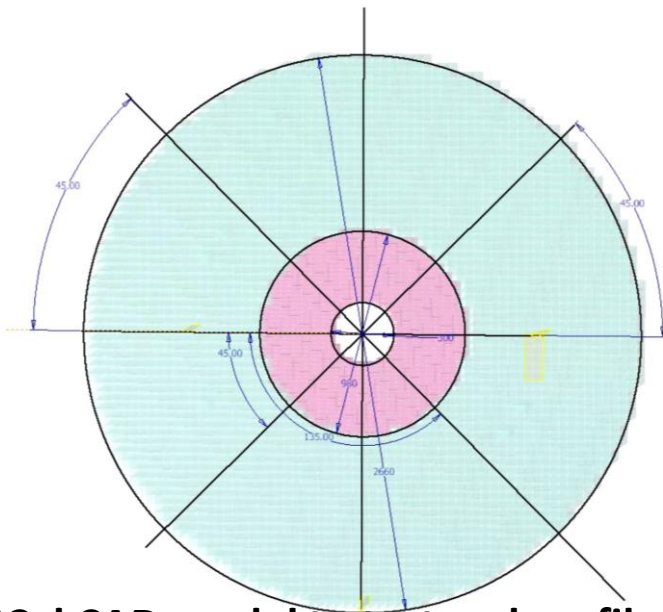
EIC EEEMCal model – support structure

SciGlass: ~11000 blocks (2cm x 2cm)

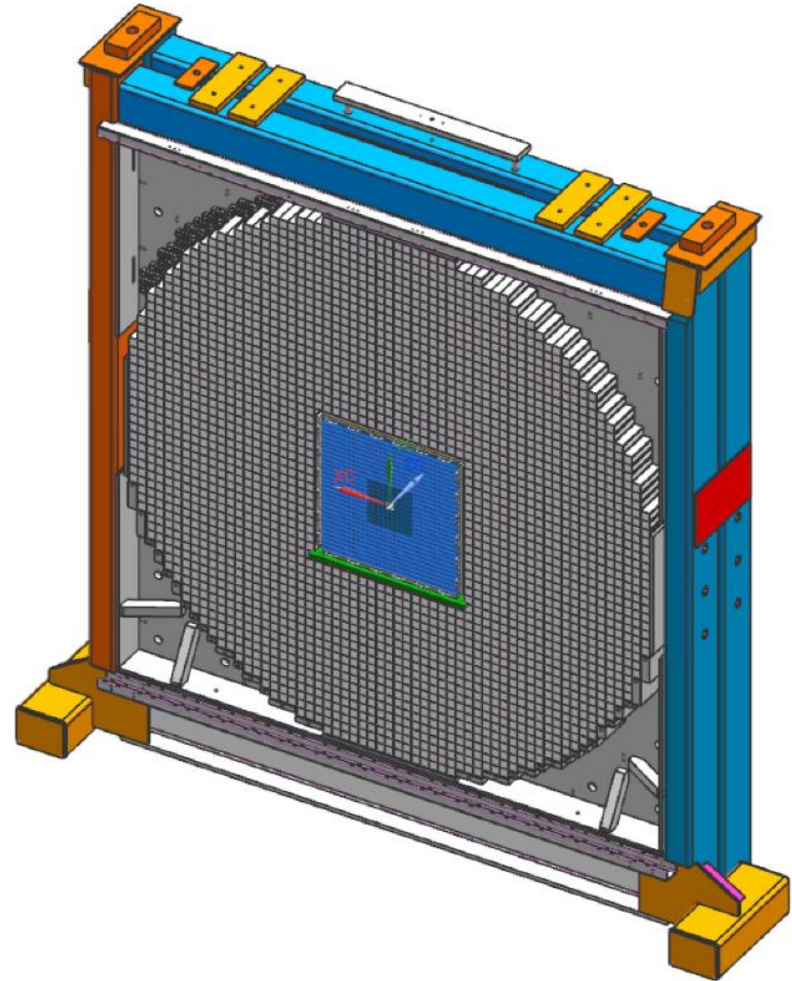
2778 blocks (4cm x 4cm)

Crystals: 1628 blocks (2cm x 2cm)

Total radiator weight: 8573 kg
(9.5 US tons)

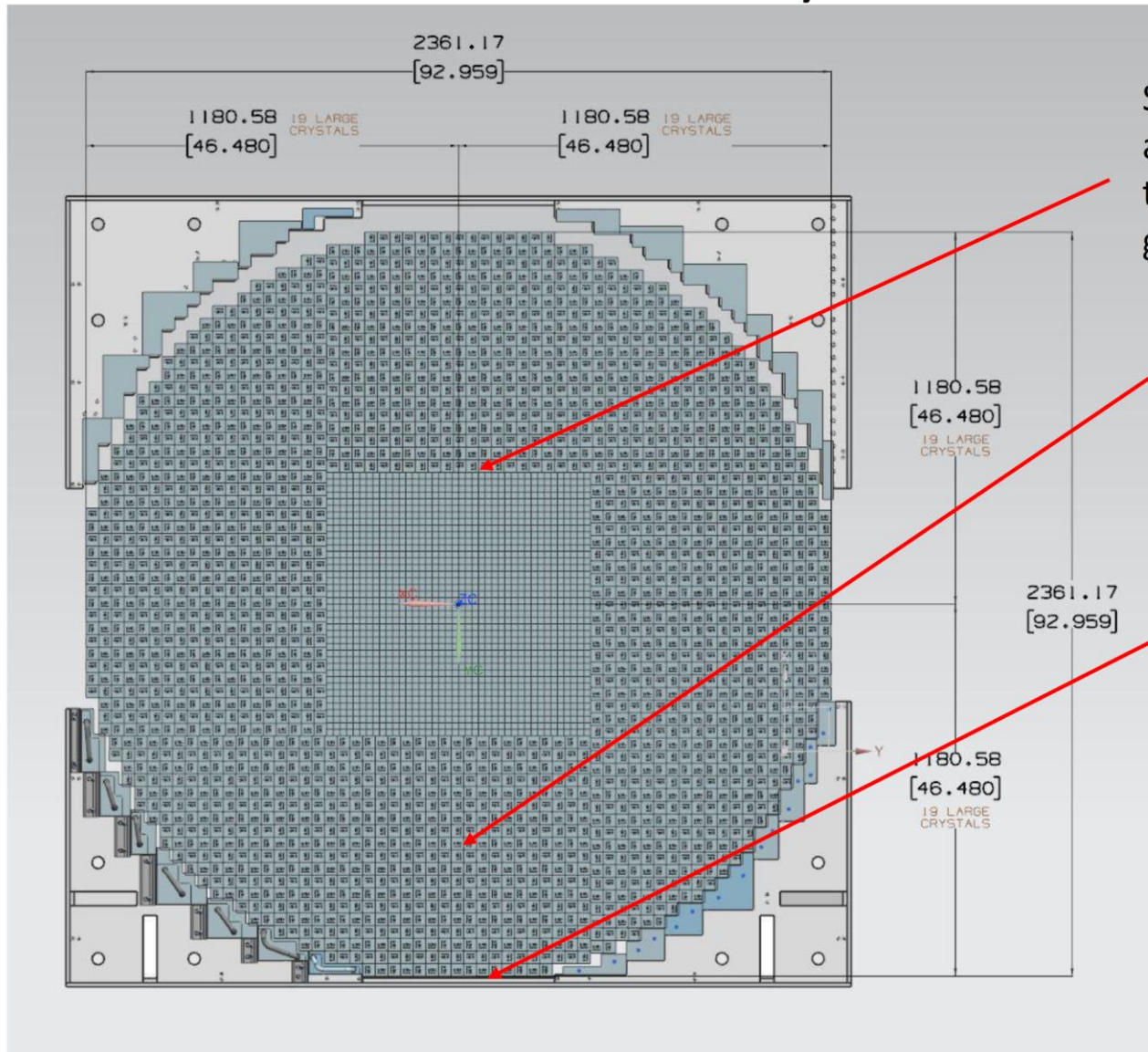


EEEMCal CAD model to test carbon fiber
between modules



For support structure consider the
example of the Jlab Hall D FCAL

FCAL Insert 40x40 Crystals Overall

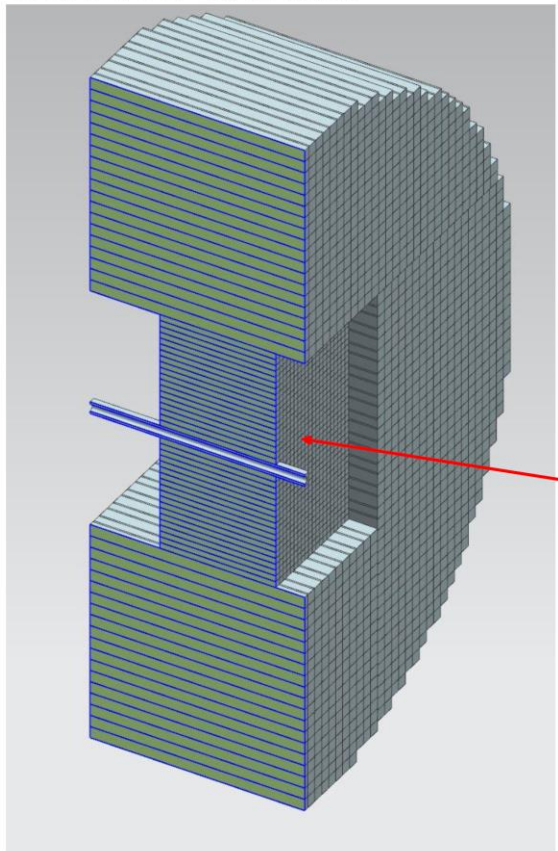


Shimming
above crystals
to make lead-
glass row even

19 Lead Glass
all around
Crystals

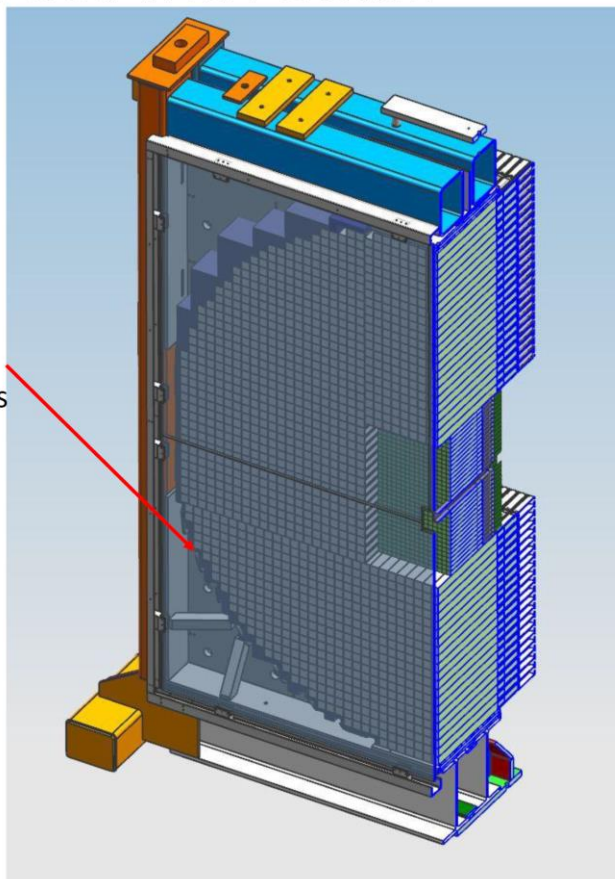
Need to
shim ½ cm
to make
transition
to 32x32

Section cut no detail



Crystals
recessed
10 cm

Section cut with detail



Bottom of each
column get's
shimmed to make
row straight (starts
out undersized)

Section showing location of crystals relative to lead glass

