World: a 20 meter cube around this pit, centered at the star.

$\stackrel{\downarrow}{\square}$

## WATER



## Outer Detector

Offset of +1 meter
in Z direction,

Including supports and casing: Diameter of 1.15 meters Height of 2.2615 meters


This is our end goal (visualization of the fridge), and the next slide is my proposal for the geometry

50K plate $\mathrm{Z}=6$ millimeters $D=0.36$ meters Z-offset $=+0.2311$ meters Associated Cylinder: $\mathrm{Z}=0.8324$ meters $D=0.339$ meters Z-offset $=+0.398$ meters
4 K Plate
Z=5 millimeters
$\mathrm{D}=0.323$ meters
Z-offset $=+0.0279$ meters
Associated Cylinder:
$\mathrm{Z}=0.6182$ meters $\mathrm{D}=0.302$ meters Z-offset $=-0.2904$ meters

## Copper Cylindrical

Cavities ( $50 \mathrm{~K}, 4 \mathrm{~K}, 1 \mathrm{~K}$, $100 \mathrm{mK}, 15 \mathrm{mK}$ )
Dilution Refrigerator Z=Height D= Diameter



Each Crystal is a cube of 5.2 cm

With a -0.550 meters offset in the $Z$ direction (to be in the near bottom of coldest chamber)

