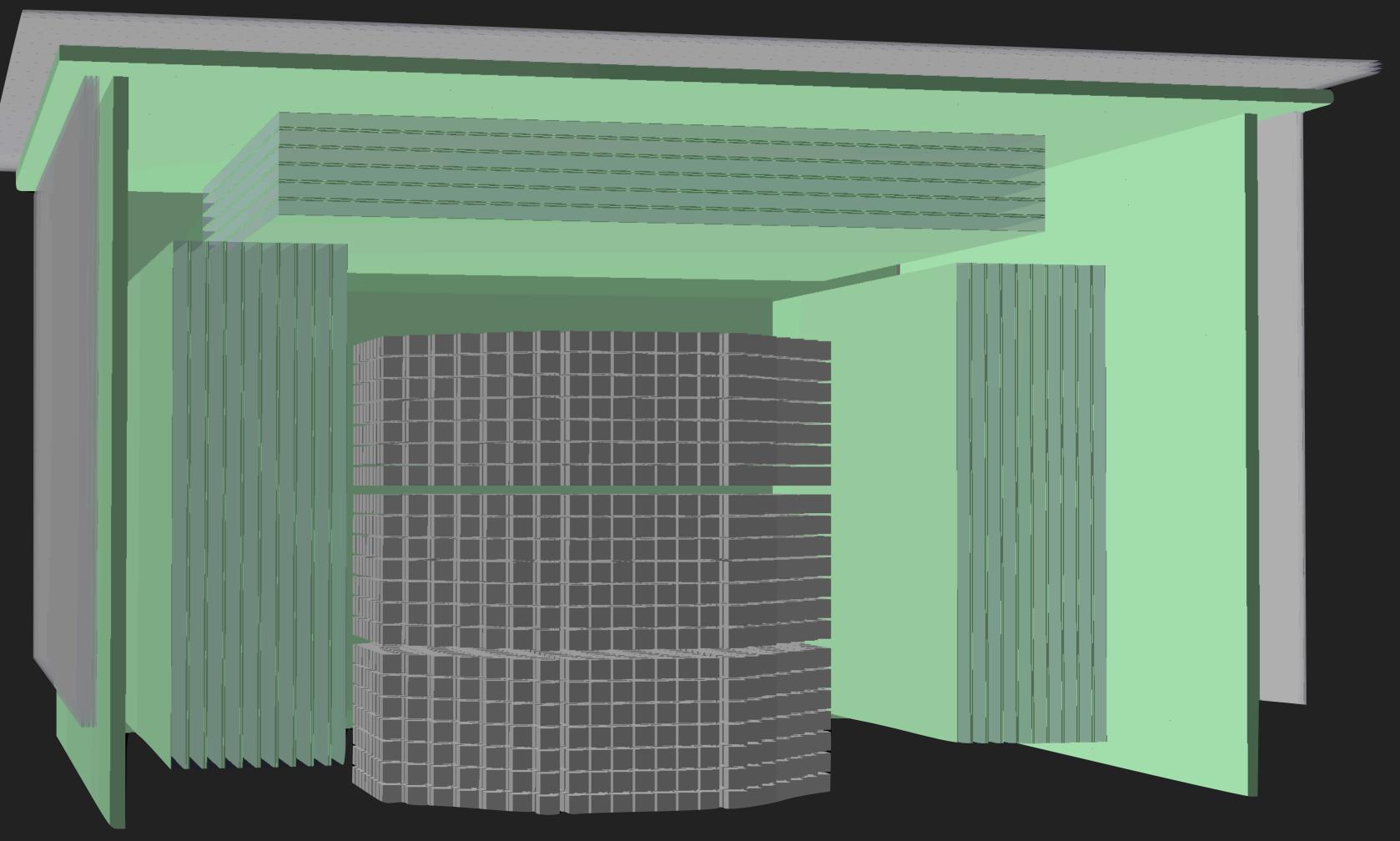
## STATUS OF THE SCD

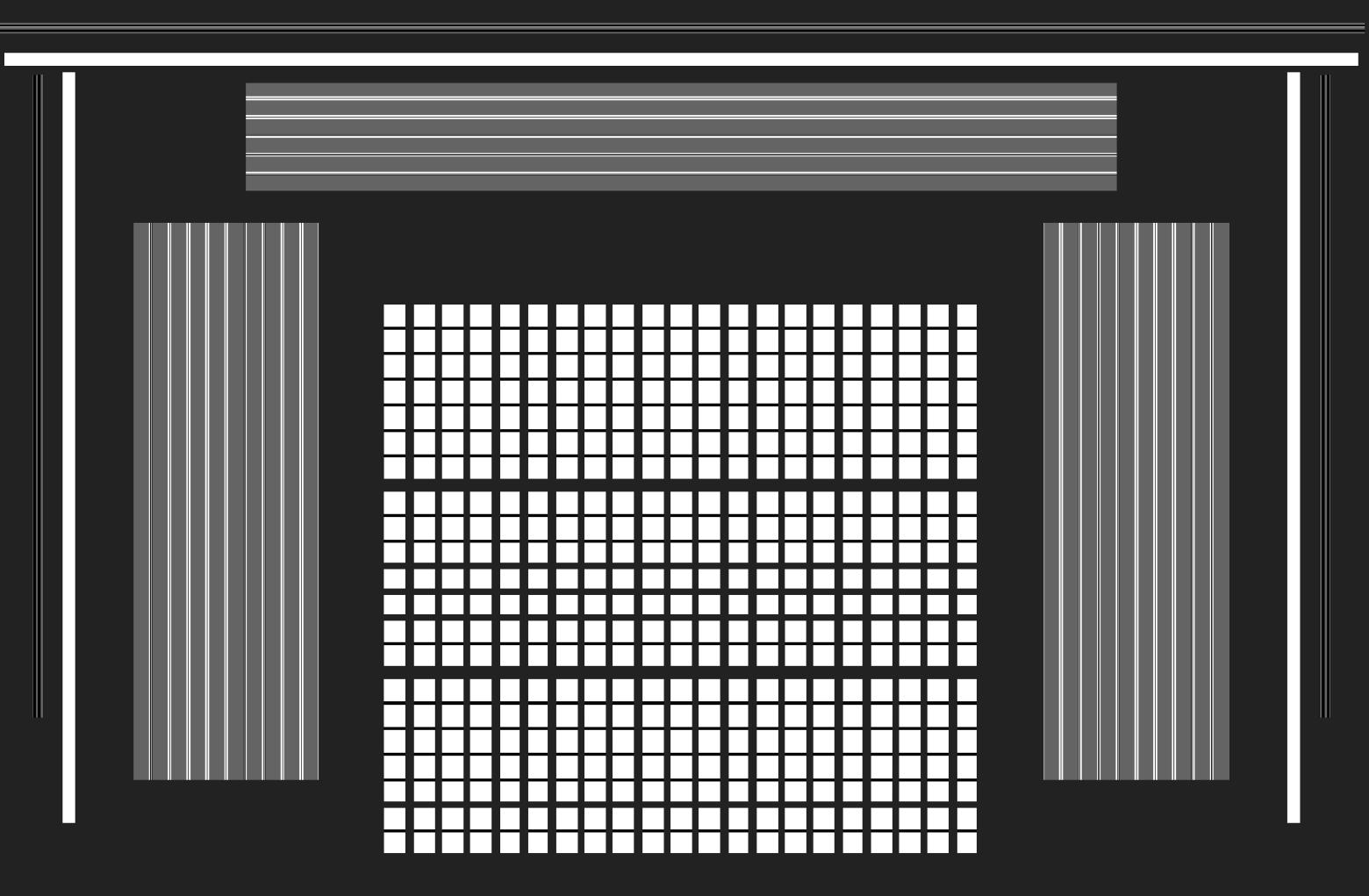
## GEOMETRY IMPLEMENTATION



The current SCD implementation is very similar to the STK:

- 9.5cm x 9.5cm x 150um silicon wafers
- 4 single sided top layers 1.92m x 1.92m
- 4 single sided side layers 1.73m x 0.86m
  - Carbon fiber support structures (might need some re-consideration about placement of silicon layers)

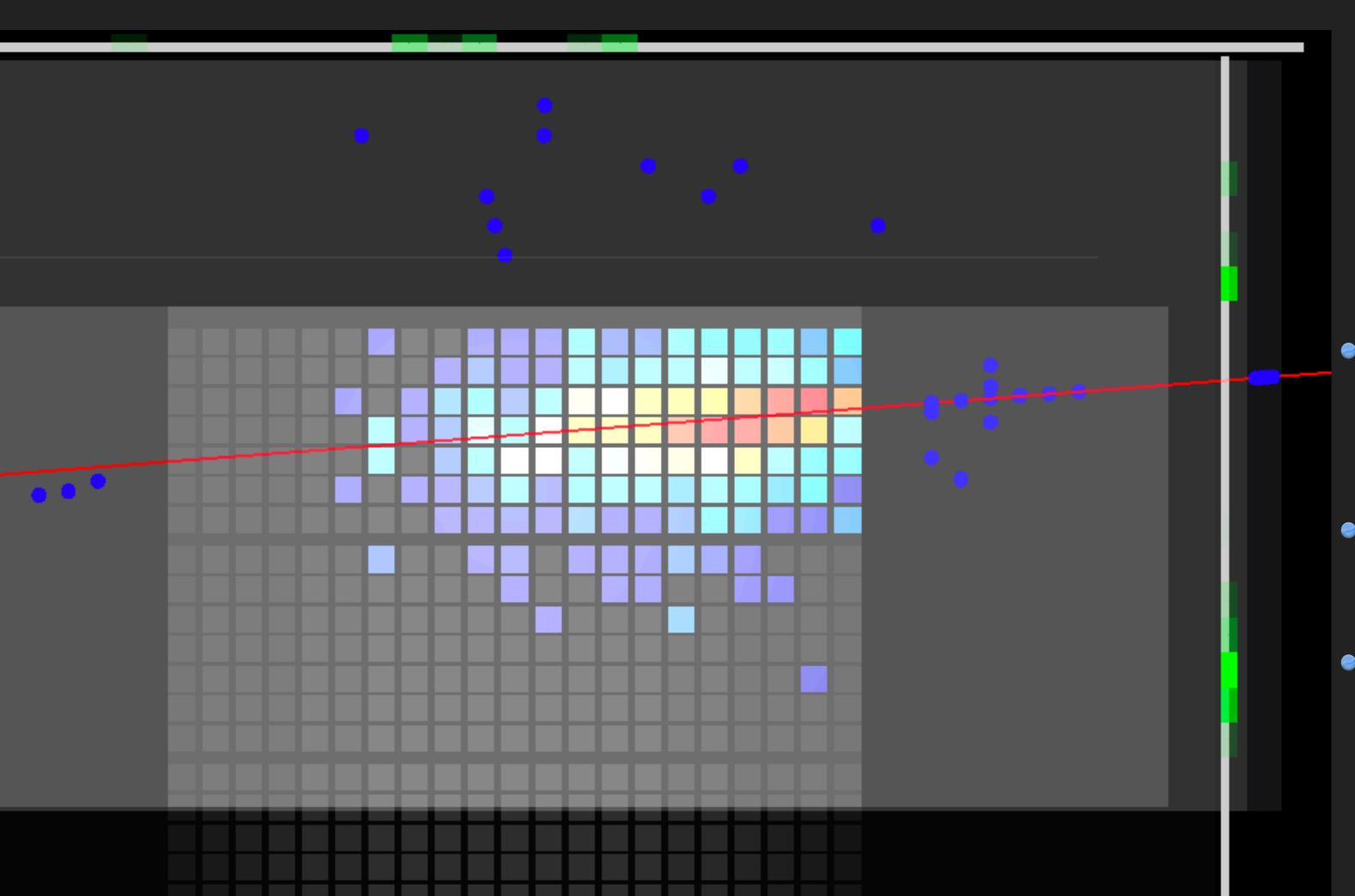
## TUNABLE PARAMETERS



There are several parameters that could be changed

- Thickness of the silicon wafers
- Number of layers on top and side (separate)
- Gap between consecutive X Y layers for top and side (separate)
- Gap between two consecutive trays for top and side (separate)
- Production threshold for particles in the SCD wafers

## DATA AND PROCESSING



Several processing steps available for the STK

Particle hits can be digitized into strips (geometrical digitization, no noise or ADC conversion)

- Rough clustering algorithm (no SNR check, just based on EDep)
- Already integrated in Hough tracking algorithm