

# First 10x10cm Tile Test

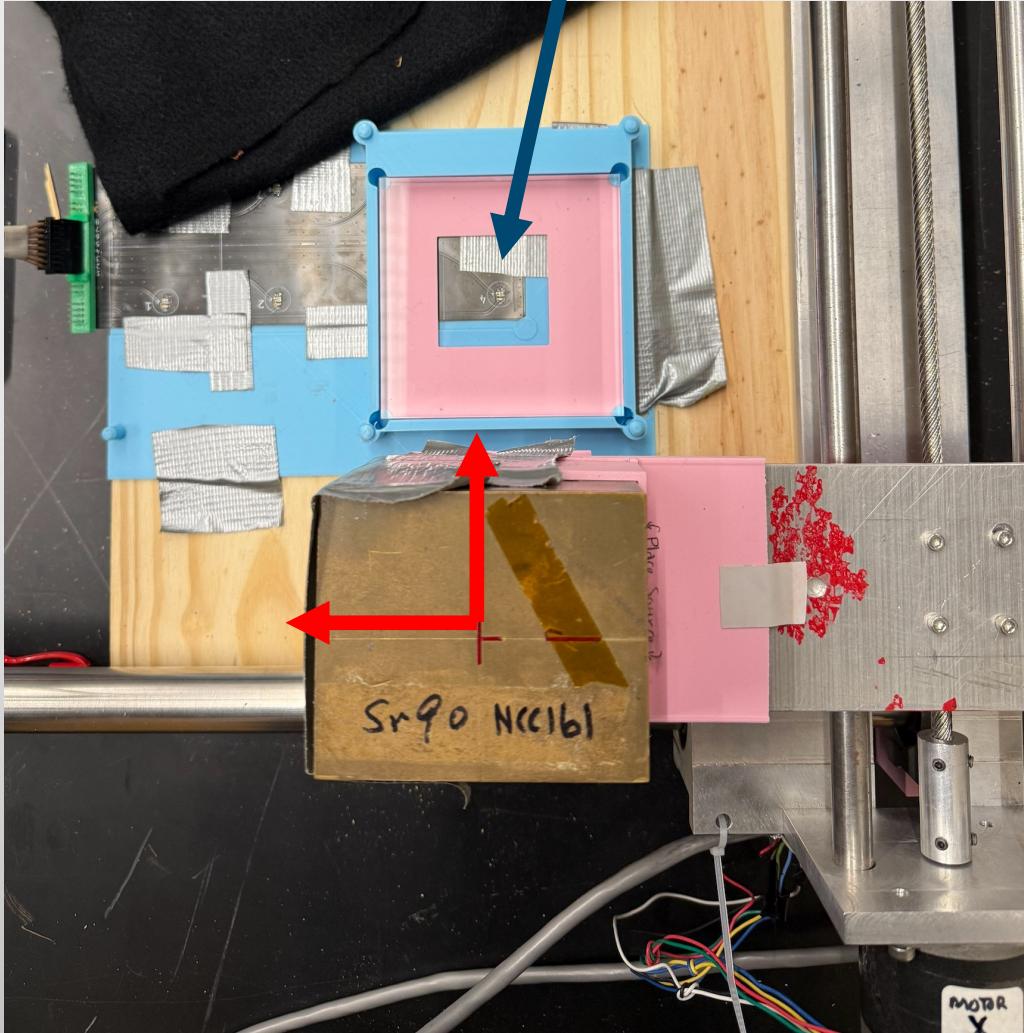
Sam Corey



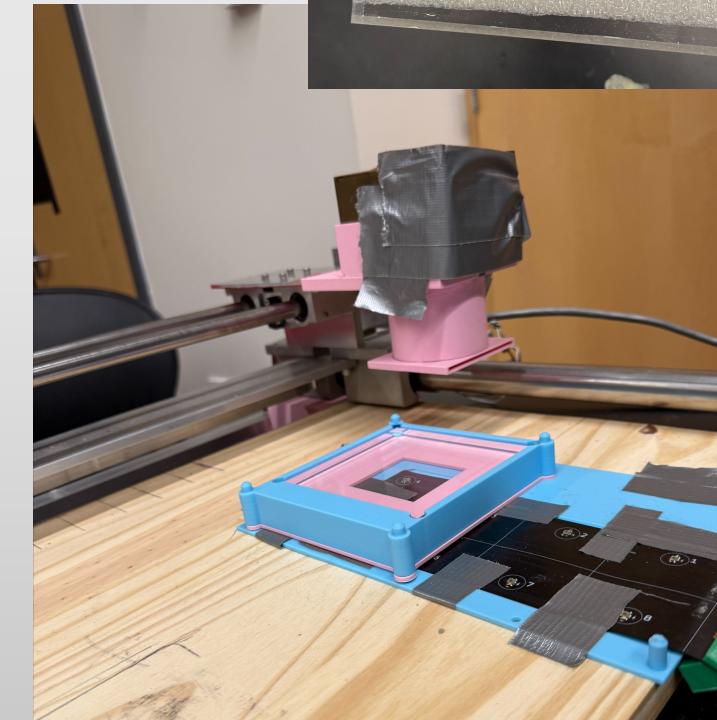
THE OHIO STATE UNIVERSITY

# Setup

SiPM



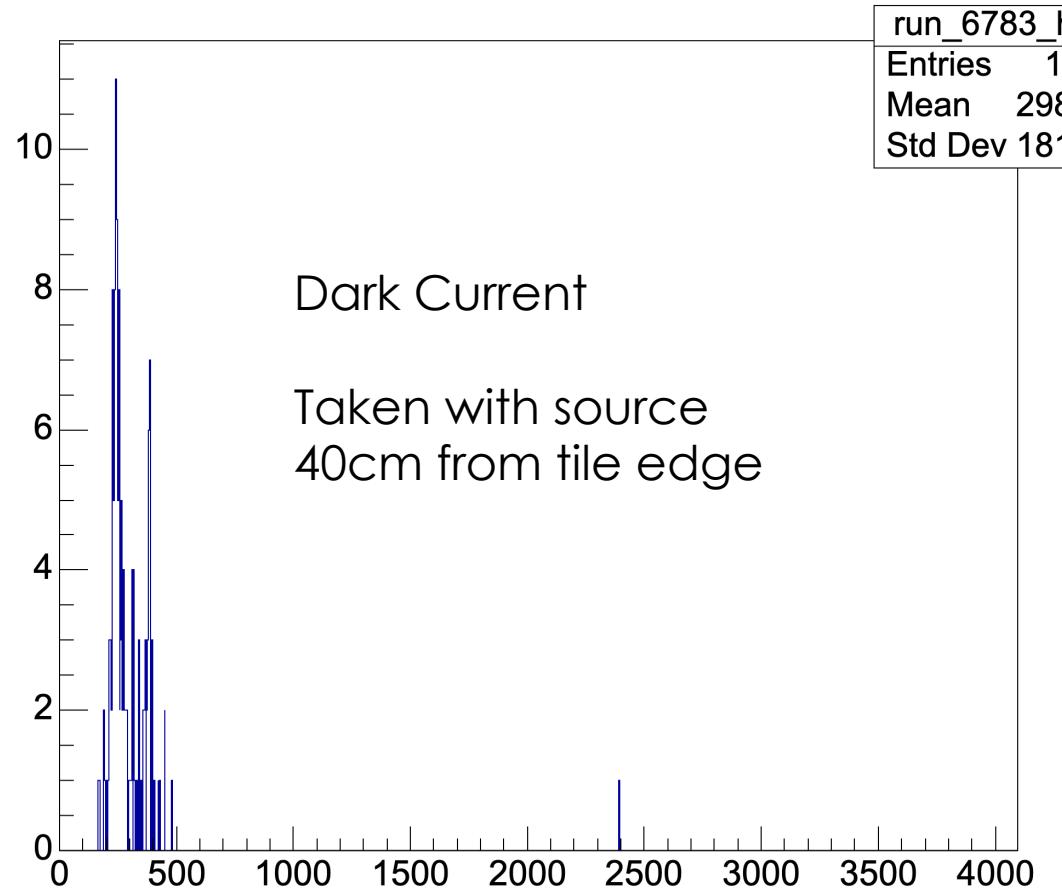
Sr90 source  
moves along  
red arrows



Black felt is placed between the tile and columnated source for data taking.

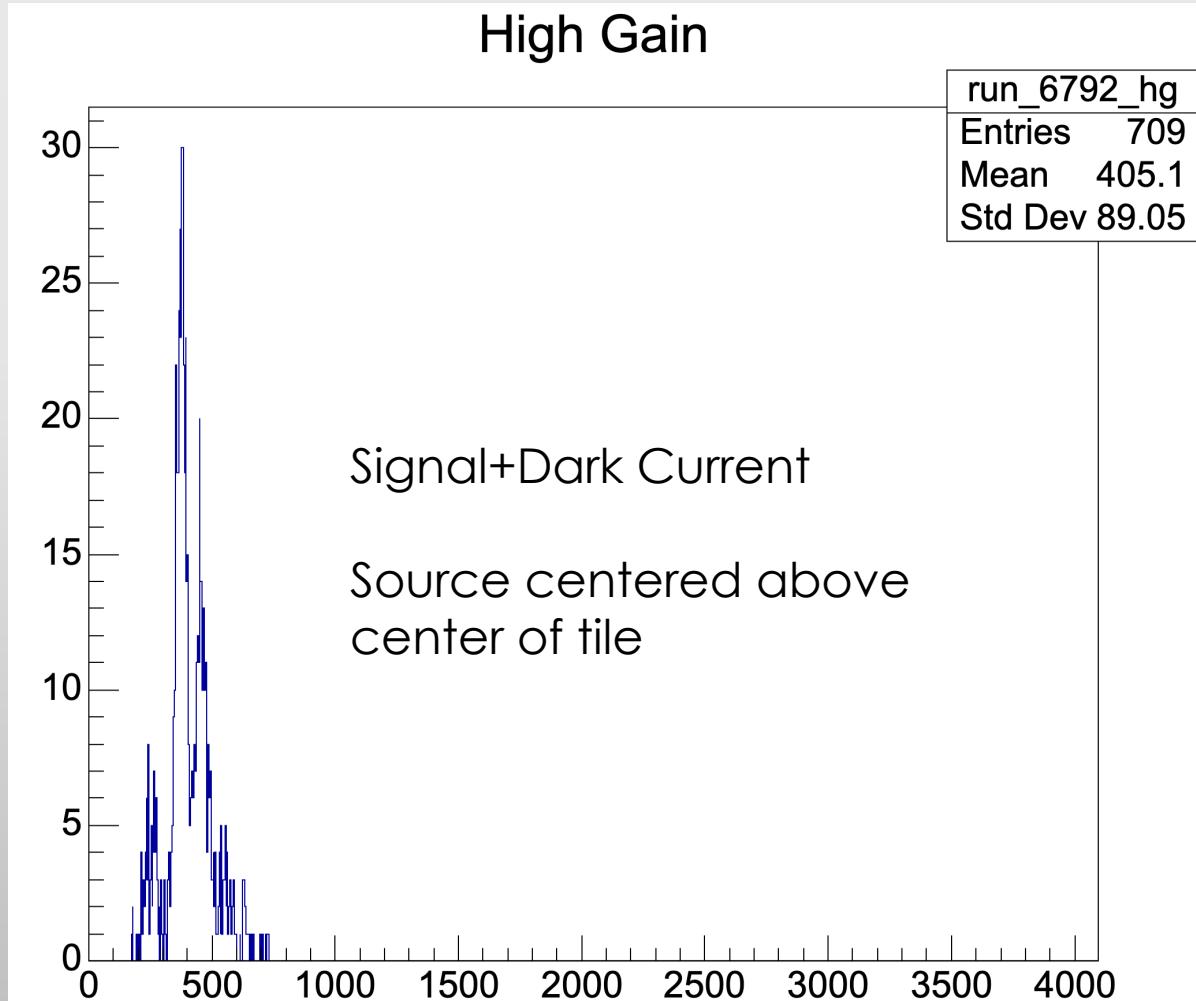
# Raw Signal

High Gain



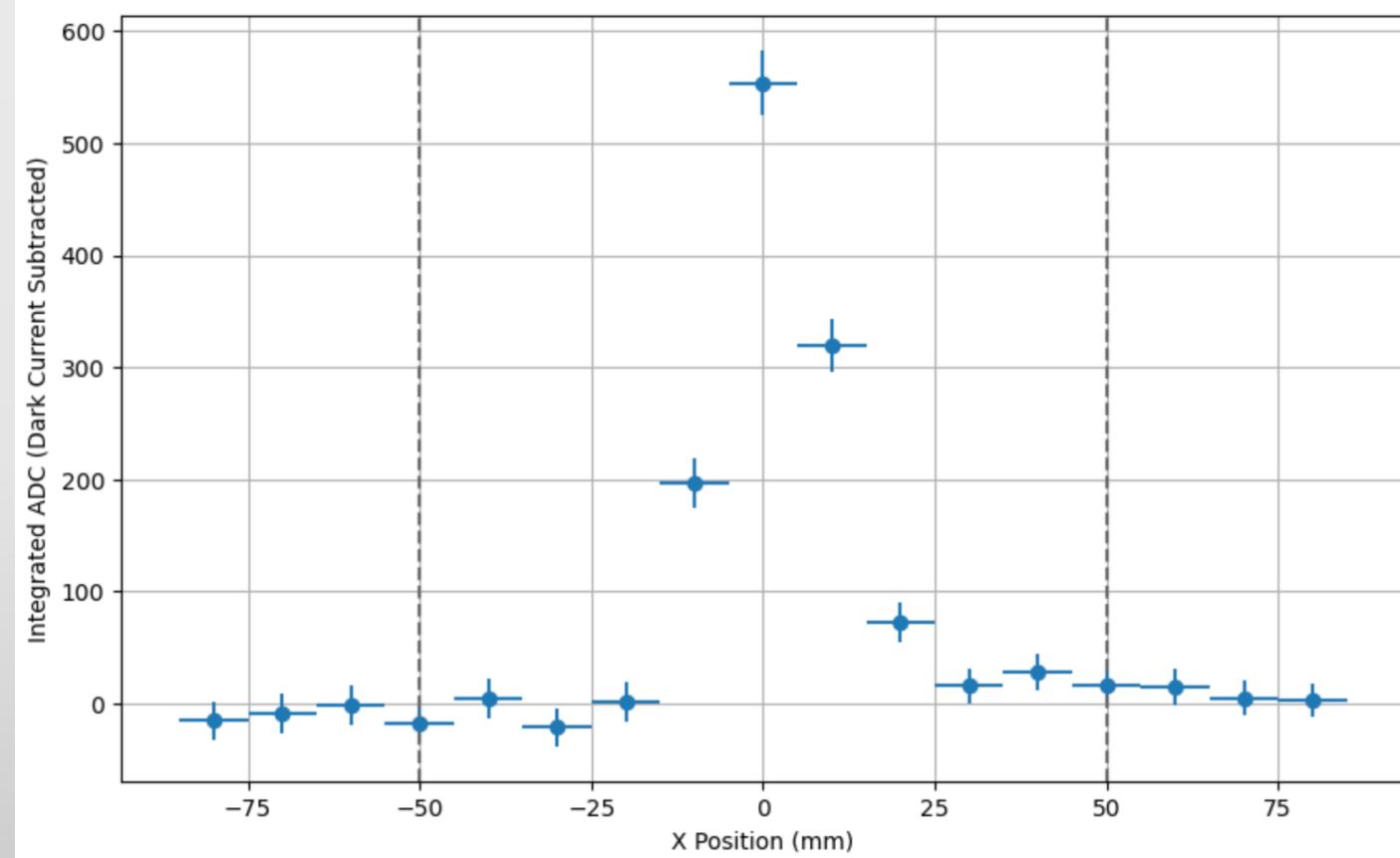
Tile is 10x10x1.5 cm. No dimple, wrapping, or paint.

High Gain



# Response curves

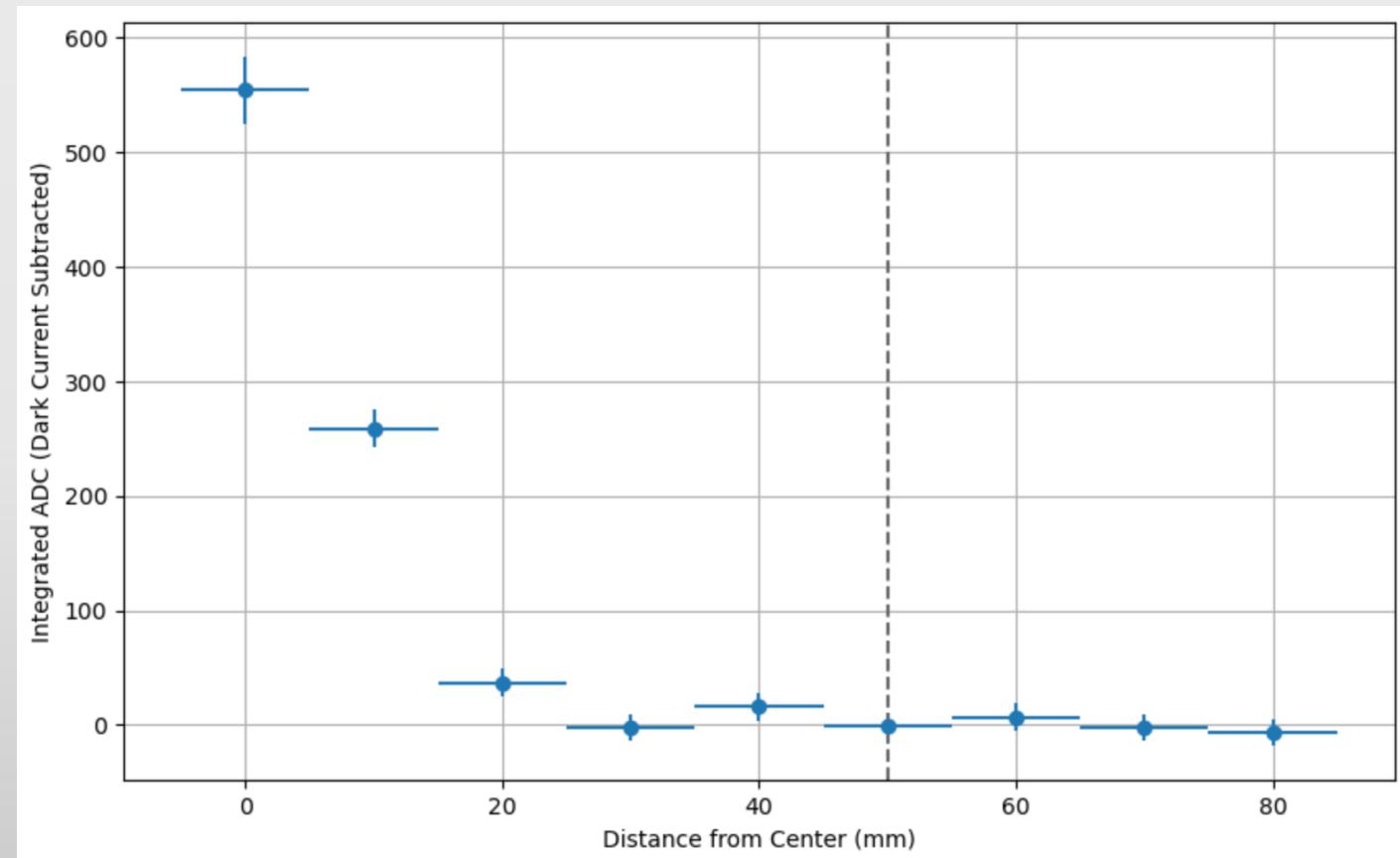
- Scan horizontally across the center of the tile.
- Dark current taken at beginning and end.
- Nearest (in  $t$ ) dark current histogram is subtracted from the signal histogram.
- Signal histogram is then integrated.



Vertical lines show the edges of the tile

# Response curves

- Same info, but plotted as a distance from the center of the tile rather than absolute coordinates.



Vertical lines show the edges of the tile