

First 10x10cm Tile Test

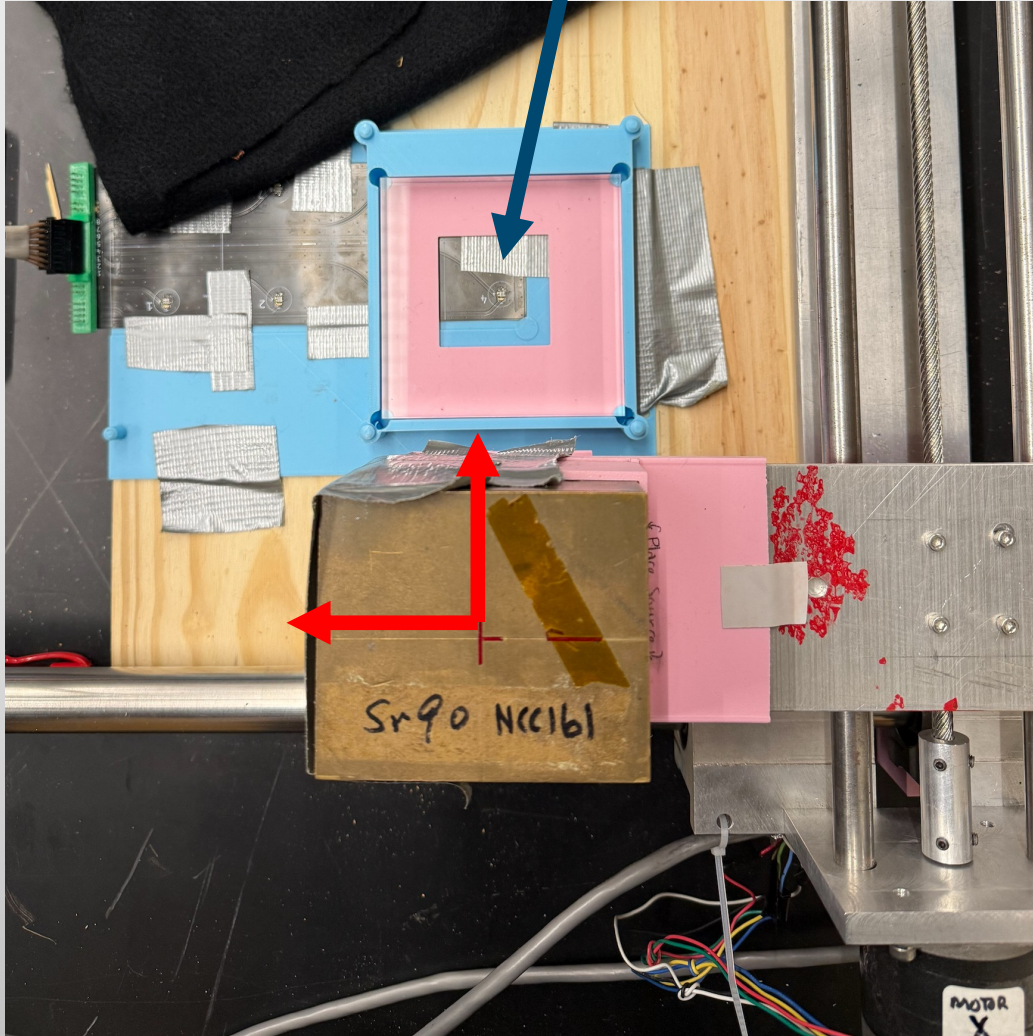
Sam Corey



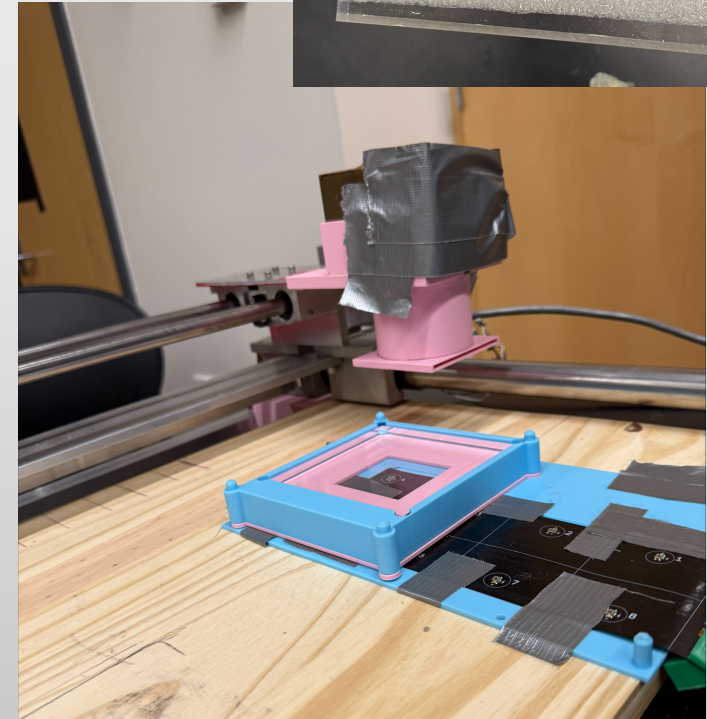
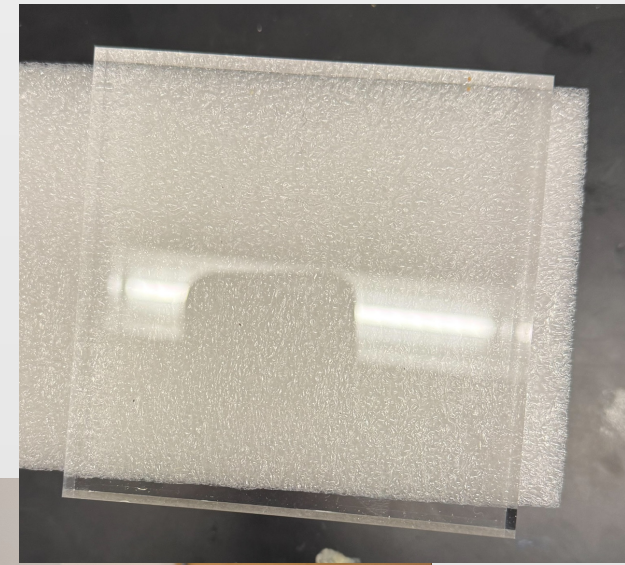
THE OHIO STATE UNIVERSITY

Setup

SiPM



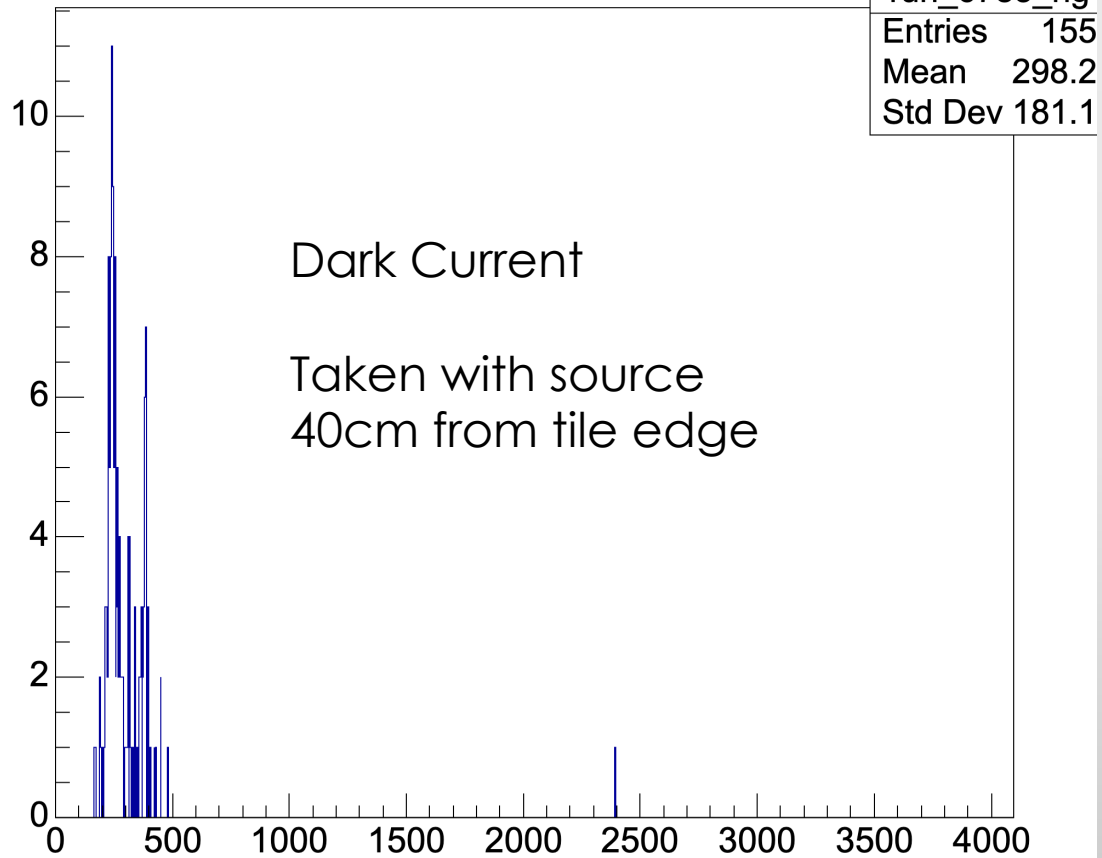
Sr90 source
moves along
red arrows



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

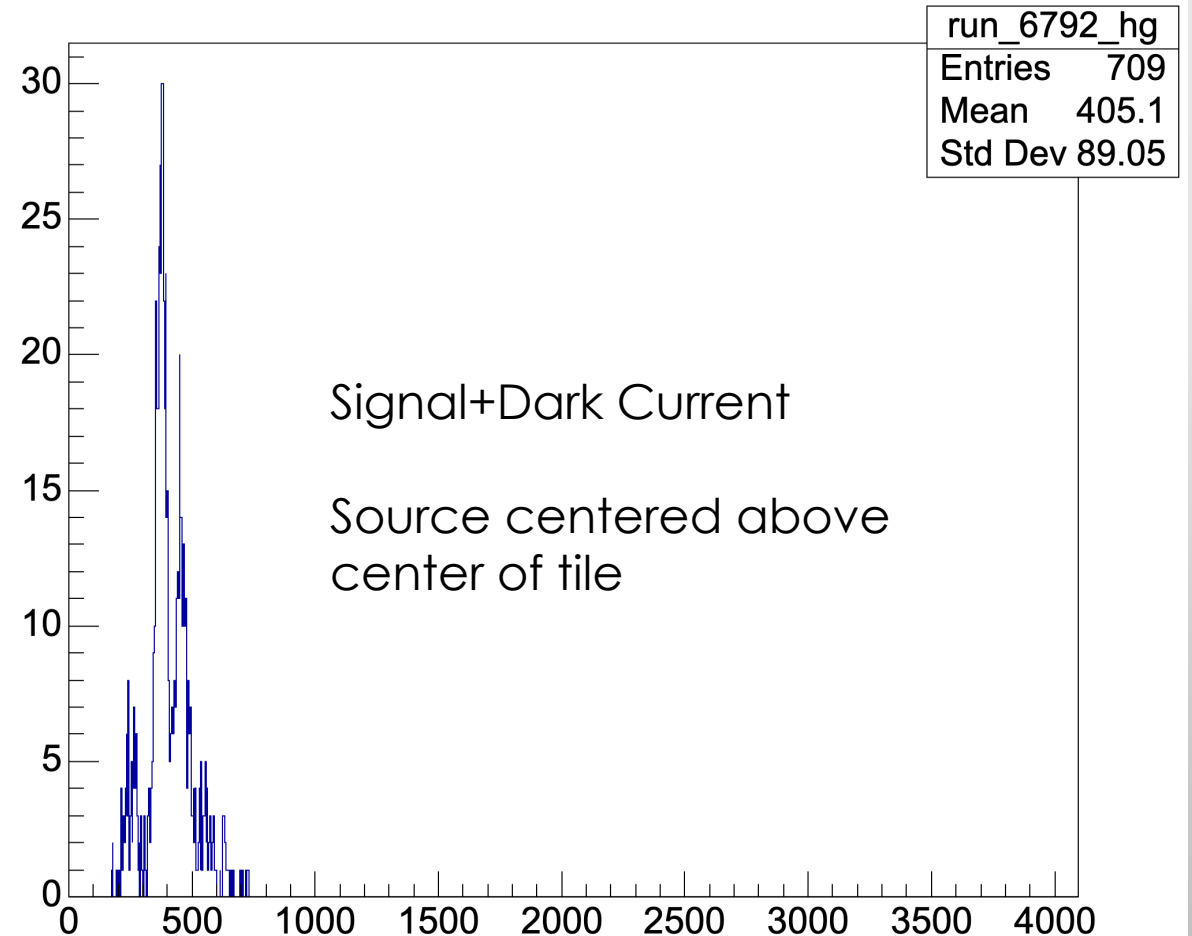
Raw Signal

High Gain



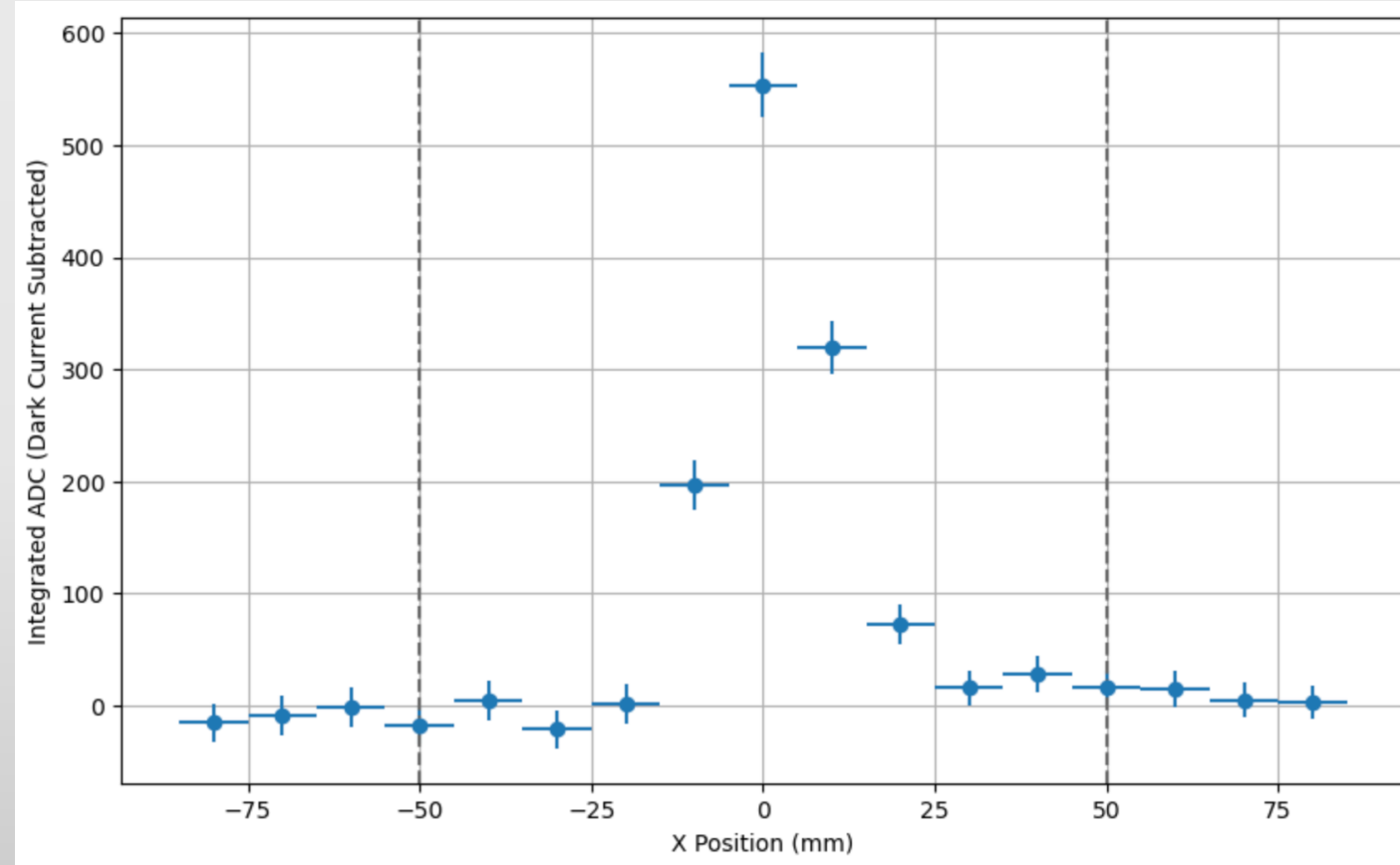
Tile is 10x10x1.5 cm. No dimple, wrapping, or paint.

High Gain



Response curves

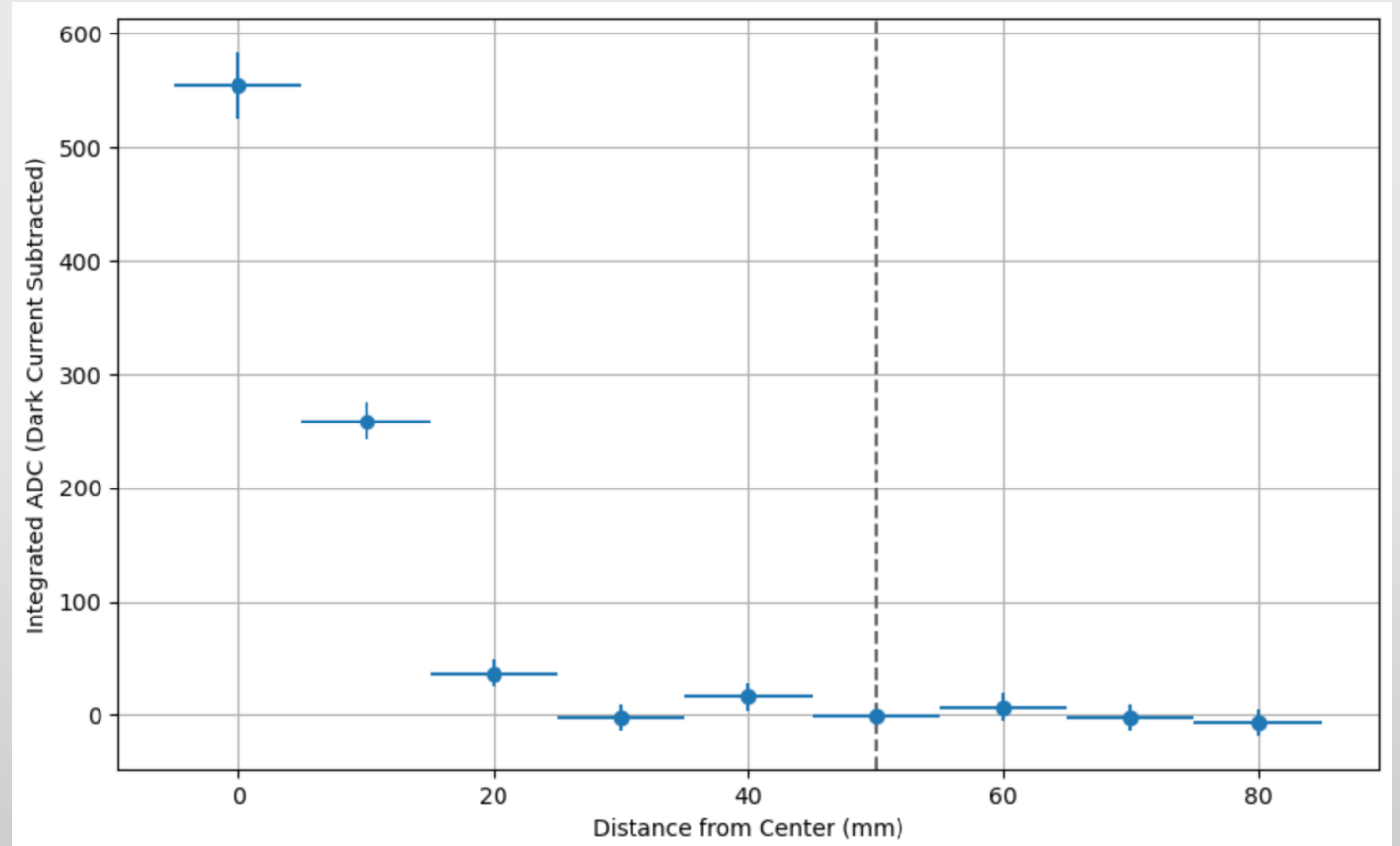
- Scan horizontally across the center of the tile.
- Dark current taken at beginning and end.
- Nearest (in t) dark current histogram is subtracted from the signal histogram.
- Signal histogram is then integrated.



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