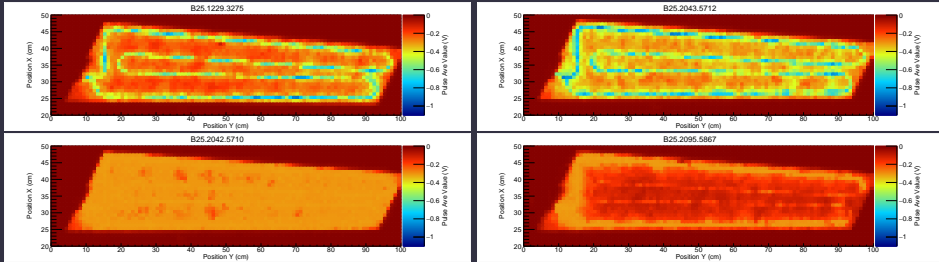


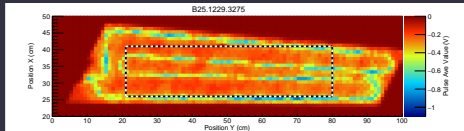
sPHENIX HCal Tile Tests
Chris McGinn
2020.07.31

Tile-by-Tile LED Scans



- **Tile scans above are preliminary**
 - **Bottom two tiles (low light output) were done consecutively on a separate day**
 - **Re-running B25.2043.5712 (highest light output) to confirm no change to setup occurred**
- **See [backup](#) for single-plot-per-slide**

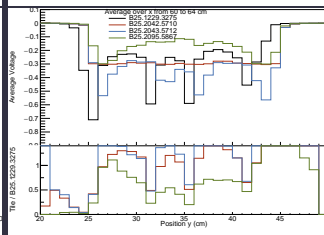
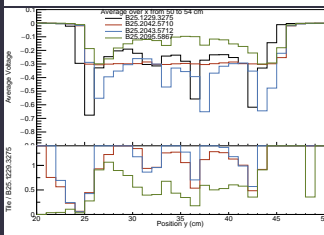
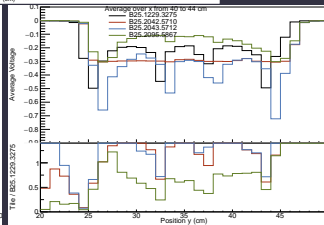
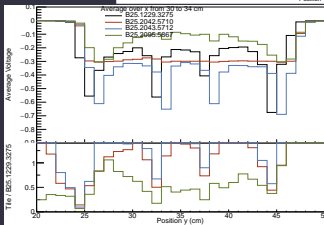
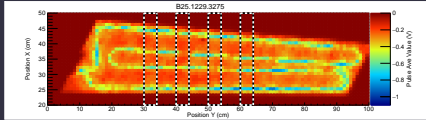
Integral Over Fiducial Region



Tile Tag	Fiducial Region Sum (V)
B25.1229.3275	-253.998
B25.2043.5712	-342.647
B25.2042.5710	-260.652
B25.2095.5867	-136.81

- **Sum over the indicated fiducial region in above figure on a tile-by-tile basis**
- **Would indicate B25.1229.3275 and B25.2042.5710 are comparable**
 - **Despite dramatically different distributions of light**
 - **See tile images on previous slide**

Select 1-D Slices



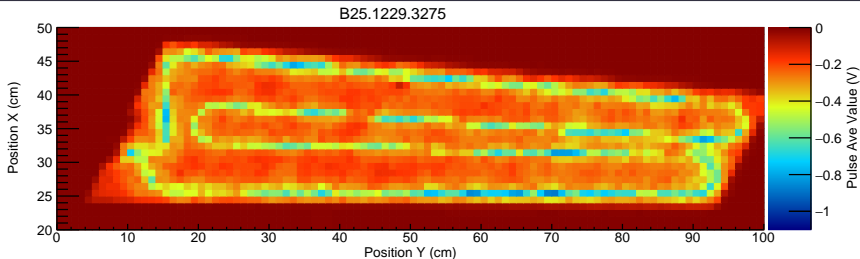
- Slices as shown in above cartoon

Conclusions

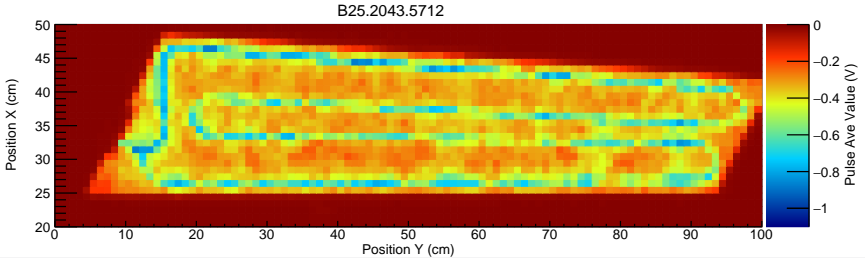
- **None yet. This is preliminary**
- **If any aspect of the test-stand setup here is unfamiliar, please see previous presentation:**
<https://indico.bnl.gov/event/8094/>

Backup

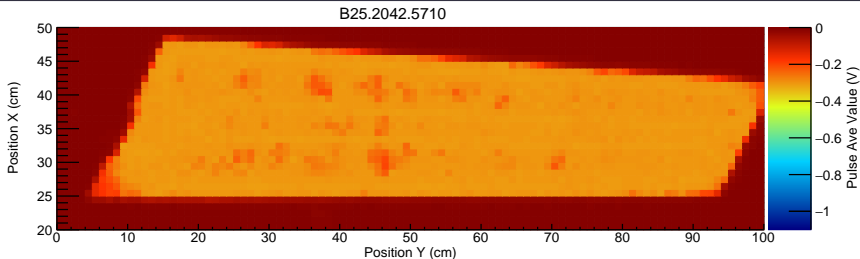
B25.1229.3275 LED Scans



B25.2043.5712 LED Scans



B25.2042.5710 LED Scans



B25.2095.5867 LED Scans

