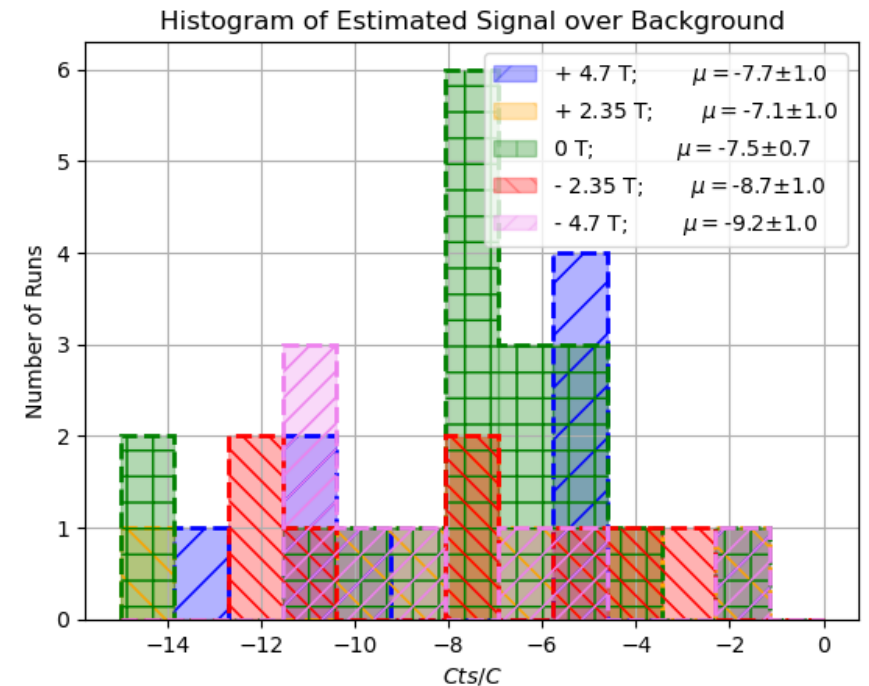
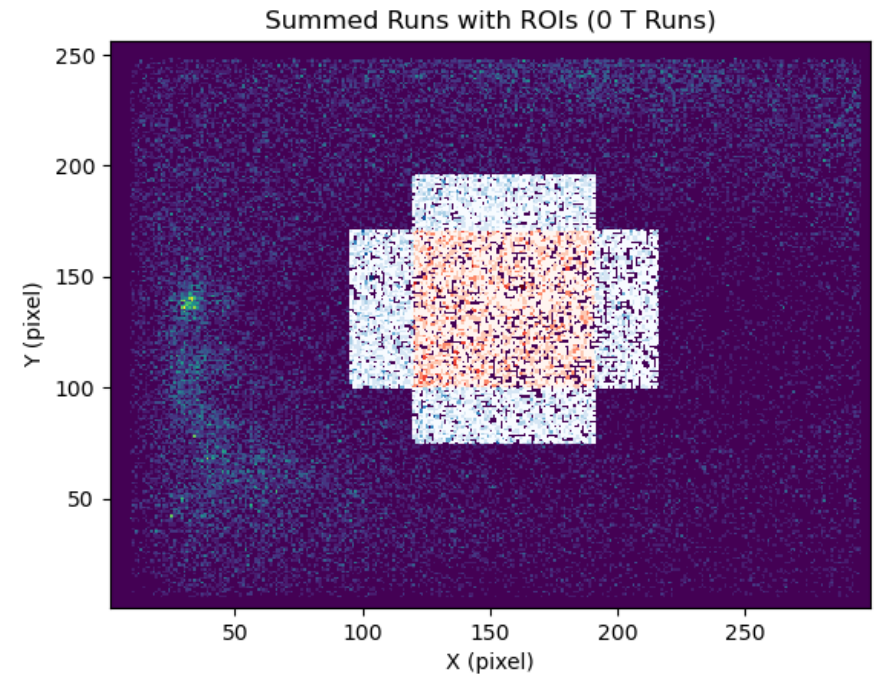


SNS 2020 Backgrounds

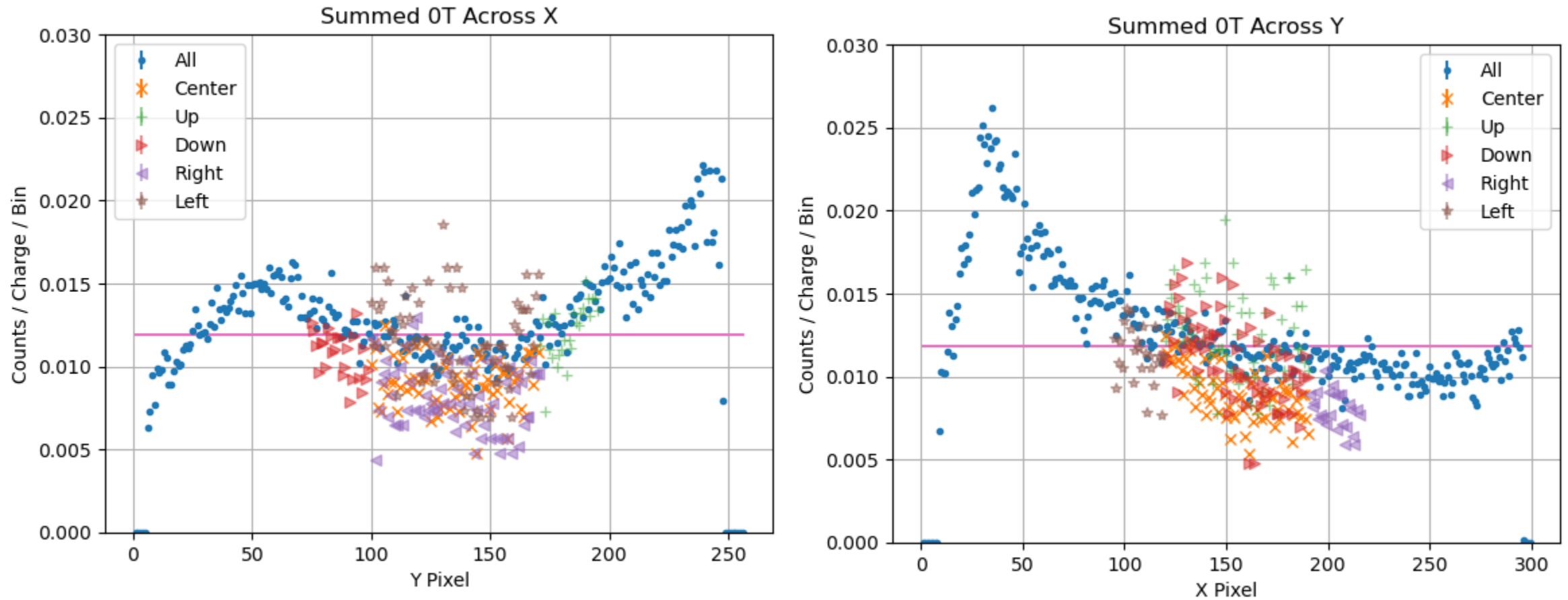
4/12/2022

Previously:

- Summed backgrounds immediately to sides of ROI:
- Oversubtracts the background
 - Only really care if we're trying to get 0 T limits
 - Can use 0 T in ROI vs. other signals to limit the signal through the absorber

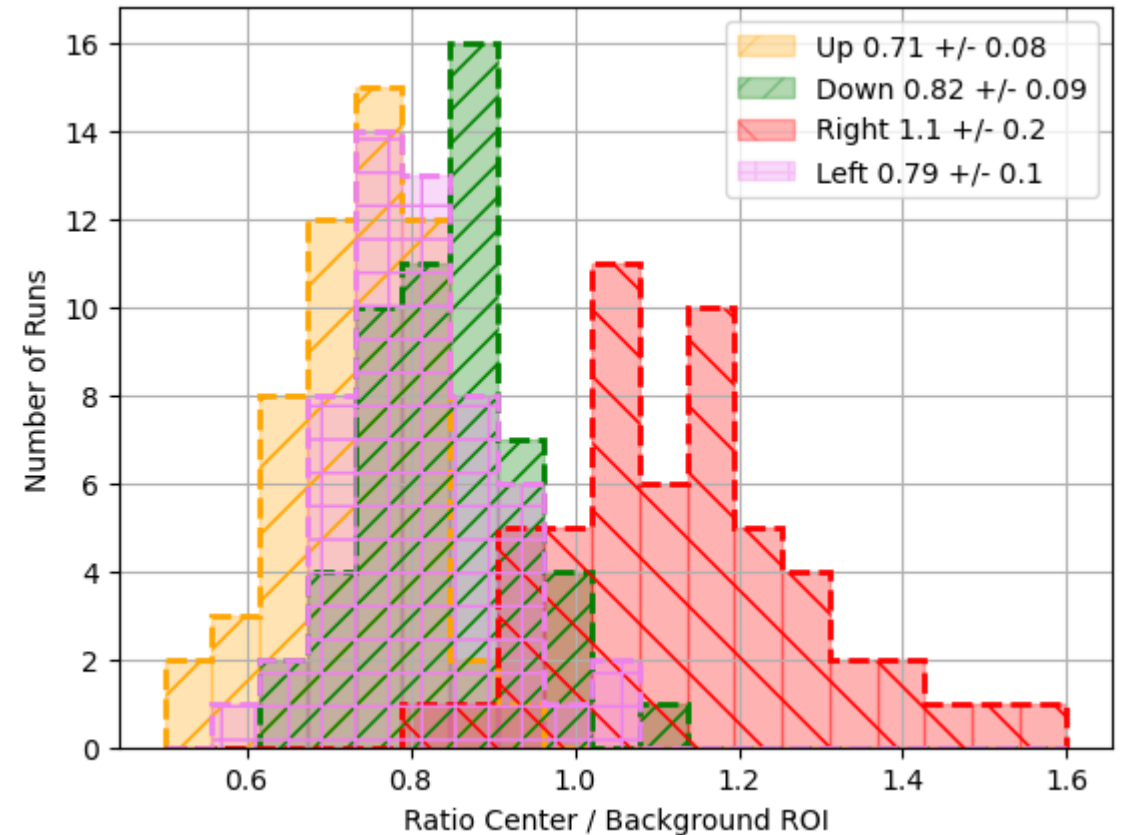
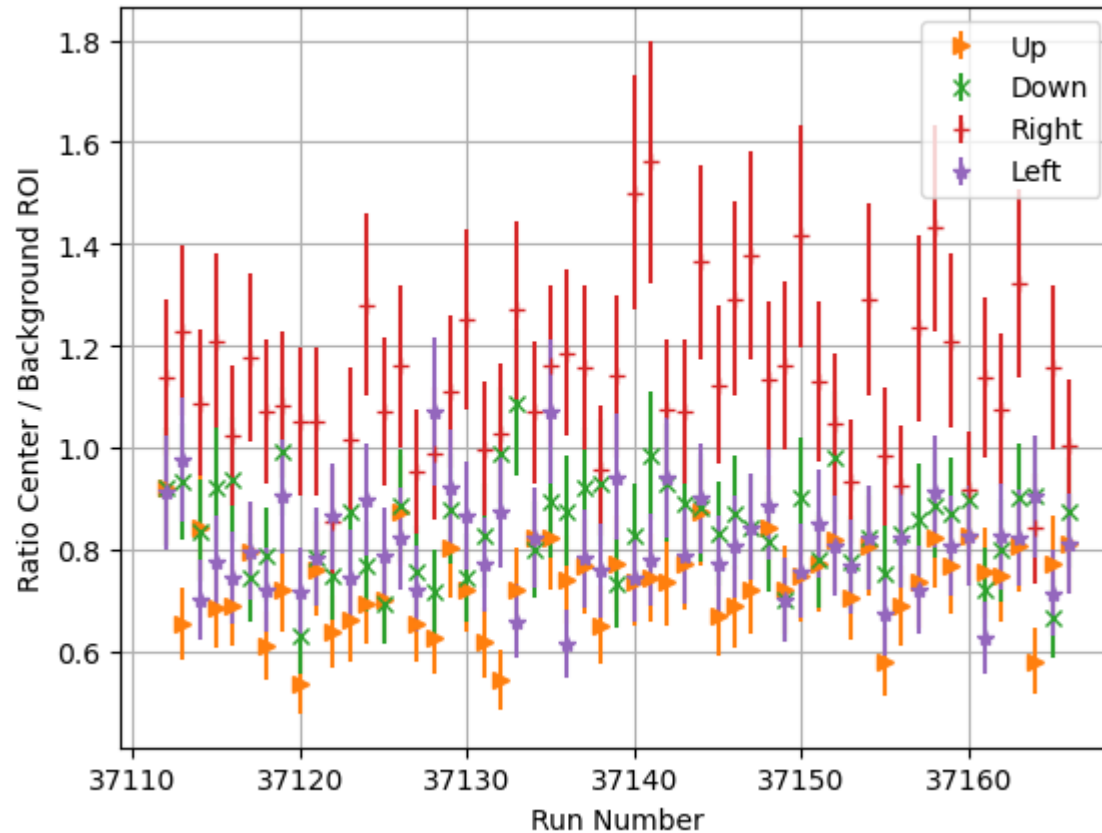


Position Dependence of Background ROIs



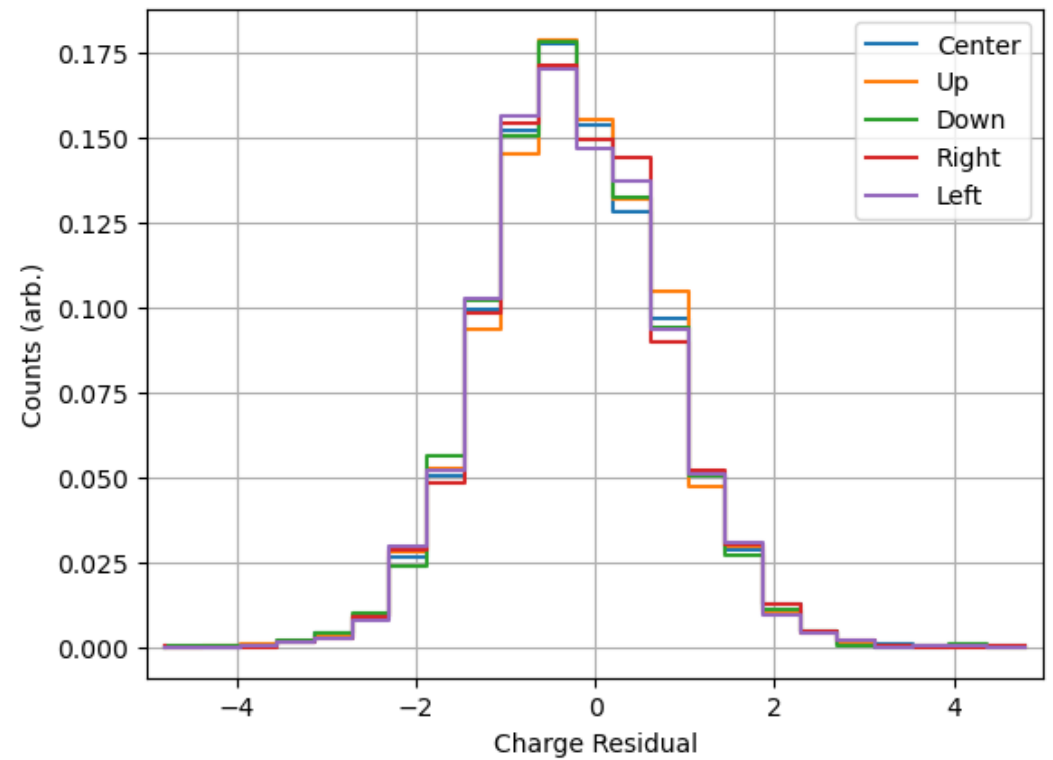
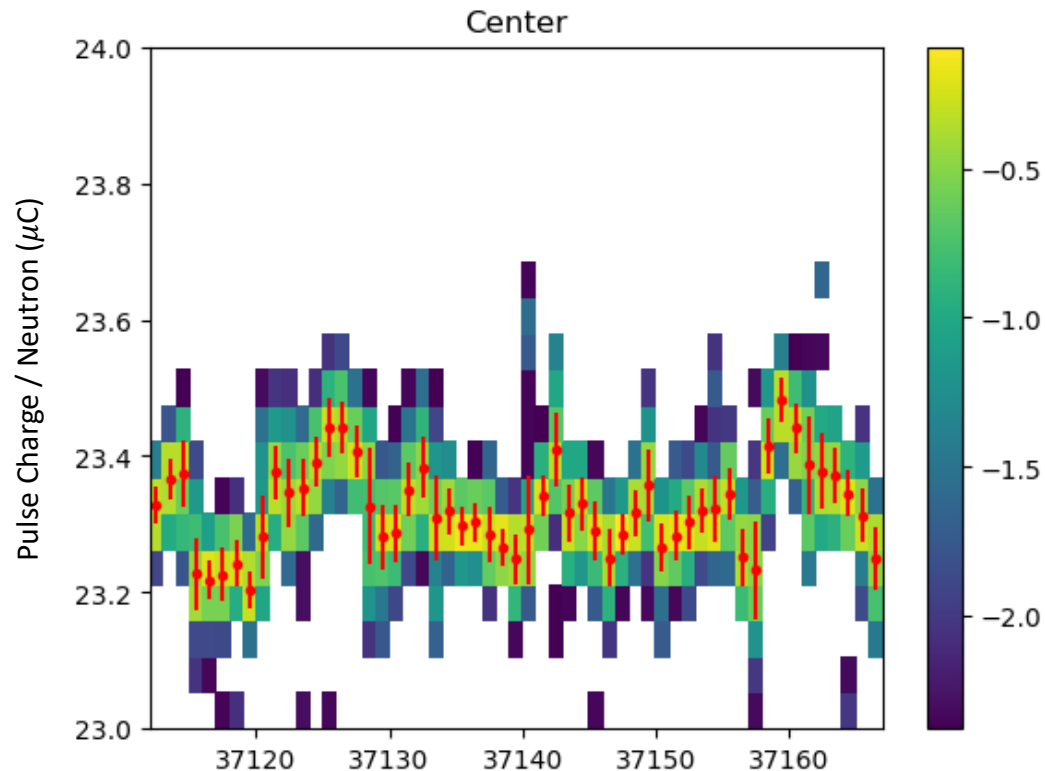
- Region of interest (where the beam hits) is in a saddle point!

Relationship between Center (Beam) and Background ROIs



- Take Ratio of counts/bin for each side on each run.
 - No obvious time-dependent trends

Relationship between charges of accelerator pulses and where events occur



- Histogram charge per pulse in each region
 - Look to see if the spreads differ – they behave the same

Side Note: Not really sensitive to this anyways

