

# CRT Run Plan in November

Richie Diurba

diurb001@umn.edu

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# Objectives

- ① Take large statistics runs with the CRT for SCE analyses.
- ② Collection CTB-triggered tracks as needed by the attenuation studies of the PDS group.
- ③ HV scans (7.5 ms readout) and purity shifting runs for detector characterization.

Mandatory is around four days for PDS and ADC calibration.

Run Plan: [https://docs.google.com/spreadsheets/d/1vcrCUVJCFsaLn5Ui\\_qB3dvZ7S24gkRsvGP3rtYlsp0o/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1vcrCUVJCFsaLn5Ui_qB3dvZ7S24gkRsvGP3rtYlsp0o/edit?usp=sharing)

## Event Rate

We don't know yet how the recent runs (that changed the empty fragment rate from 10% to 1%) this week impact the run rate. It is being processed.

Run 9772 is a good model though.

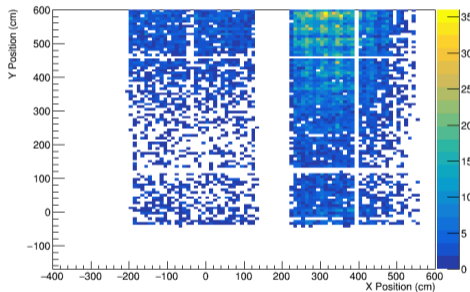
- Duration: 1 hour, 56 minutes
- 14k matched CRT tracks
- 13 Hz CTB trigger

Remember the CTB triggers for any two coincidences. There is so much noise that we need to dig into the CRT strips to get a high purity.

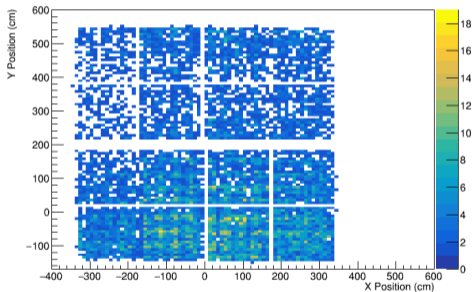
# Moving the CRT

Ed's idea is to move the BL CRT to the BR side. We need BR coverage as the BL CRT only covers 2/3 of the face.

CRT Coverage Map for TwoCRT at the F CRT Face for data



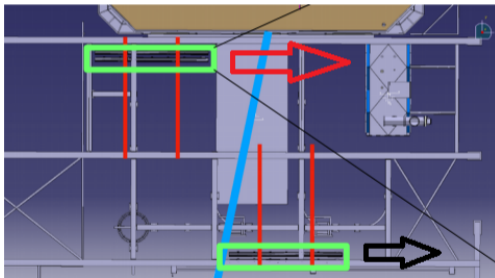
CRT Coverage Map for TwoCRT at the B CRT Face for data



Coverage maps on the CRT faces for run 9772

## Moving the CRT

Diagram from Andrew Olivier with my ideal movement in black and Ed's feasible movement in red.



## Moving Forward

- We need to make CTB combinations (although this takes matters of seconds)
- The CRT “move” is at the end of the run plan so we have time to discuss and think about.
- RUN

Thank you to all shifters! Because of you, I get to visit my mom the week of Thanksgiving!

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